

EMS LABELS, TAPES, & DISPENSERS CATALOG

EDITION II

LABELS FOR CYTOLOGY, HISTOLOGY, AND PATHOLOGY, **WARNING LABELS**, CHEMICAL RESISTANT LABELS, **TOUGH-TAGS® & TOUGH-SPOTS®**, CRYOGENIC LABELS & TAGS, **CONDUCTIVE ADHESIVE TAPE**, HI-LO TEMPERATURE TAPE, **TAPE DISPENSERS**, MARKERS, **PRINTERS & LABEL WRITERS**, AND MORE...



**Electron
Microscopy
Sciences**

www.emsdiasum.com



Our new academy is now open!

Located minutes from Philadelphia, next to our extensive warehouse in Hatfield, PA, we have many offerings led by our certified faculty:

- Fifteen Educational Workshops
- Corporate Training
- Group Training
- Private Training
- Equipment Demonstrations

Watch for our latest updated schedule!
Plan to sign up and bring your career to the next level!

**SIGN UP FOR A CLASS TODAY,
 OR SUGGEST A COURSE THAT
 YOU WANT...**

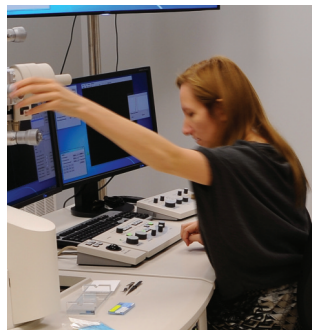


...ENDLESS POSSIBILITIES

NEWEST WORKSHOPS:

- Aurion ImmunoGold Silver Staining
- Automated Rapid Processing
- Biological SEM
- Biological TEM
- Cryosectioning/Immunogold
- Introduction to Microscopy Techniques
- Microscopy: The Complete Image
- Cryo SEM
- Materials Ultramicrotomy
- Pharmaceutical Microscopy Workshop
- Sample Preparation for Semiconductor Devices
- X-Ray Microanalysis

www.emsmicroscopyacademy.com



EMS LABELS, TAPES, & DISPENSERS CATALOG

EDITION II

TABLE OF CONTENTS

	PAGE NO.
SPECIALTY LABELS	2-7
SPECIALTY LABELS FOR CYTOLOGY, HISTOLOGY, AND PATHOLOGY...2-3	
SLIDE LABELS...3	
WARNING LABELS FOR GENERAL LABORATORY USE...4	
WASH-OFF LABELS...5	
WETGRIP LABELS...5	
XYLENE RESISTANT LABELS...6-7	
SOLVENT RESISTANT PENS...7	
AUTOCLAVE RESISTANT LABELS...7	
TOUGH-TAGS®	8-11
LASER TOUGH-TAGS®...8-9	
TOUGH-TAGS® ON A ROLL...9	
DIRECT THERMAL TOUGH-TAGS®...10	
REMOVABLE TOUGH-TAGS®...10	
THERMAL TRANSFER TOUGH-TAGS®...11	
TOUGH-TAGS STATION...11	
TOUGH-SPOTS®	12-13
LASER TOUGH-SPOTS®...12	
SPECIALTY TOUGH-SPOTS®...13	
5-ACROSS TOUGH-SPOTS®...13	
TEENY WRITERS...13	
TAPES AND DISPENSERS	14-21
HI/LO TEMPERATURE TAPE...14, 15	
LABELING TAPE...14	
AUTOCLAVE INDICATOR TAPE...15	
KAPTON® POLYIMIDE FILM TAPE...16	
SCOTCH TAPE: 235, 616, 665, 666, 810, 811, 850...17	
CONDUCTIVE ADHESIVE TAPES...18-19	
TAPE DISPENSERS...20-21	
CRYOGENIC LABELS AND MARKERS	22-33
LASER CRYO-BABIES® AND CRYO-TAGS...22-23	
CRYO-CLEAR™ LASER LABELS...23	
DIRECT THERMAL CRYO-TAGS®...24	
THERMAL TRANSFER CRYO-TAGS®...25	
NITROTAG™ THERMAL TRANSFER LABELS...26-27	
CRYOSTUCK™ THERMAL TRANSFER LABELS...28	
CRYO-COVERTAG™ THERMAL TRANSFER LABELS...28	
METALTAG™ THERMAL TRANSFER LABELS...29	
TAMPER-PROOF CRYOGENIC LABELS...29	
STRAWTAG™ CRYOGENIC LABELS...30	
DEEP-FREEZE LABELS FOR HIGH-PROFILE PCR TUBE STRIPS...30	
CRYOGENIC SAFETY AND WARNING LABELS...31	
CRYOGENIC MARKERS...32-33	
LABEL PRINTERS	34-36
TISSUE-TEK® SMARTWRITE COLOR SLIDE PRINTER...34-35	
LABORATORY MARKERS...35... LABELER™ LAB PRINTER...36	
DYMO LABELWRITER...36	

NEW PRODUCTS...



NEW! Warning Labels for General Laboratory Use

Standard warning labels to identify cytotoxic samples and materials.

See page 4.



NEW! Cryogenic Safety and Warning Labels

Withstand freeze-thaw cycles, boiling water and autoclaving, dry ice, UV rays, Gamma irradiation, most chemicals and solvents.

See page 31.

Electron Microscopy Sciences

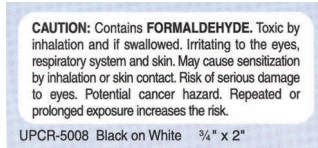
P.O. Box 550 • 1560 Industry Rd.
 Hatfield, PA 19440
 Tel: (215) 412-8400
 Fax: (215) 412-8450
 email: info@emsdiasum.com
 or stacie@ems-secure.com
 www.emsdiasum.com



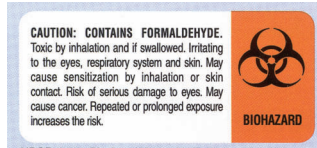
SPECIALTY LABELS

1. Histology/Cytology Labels

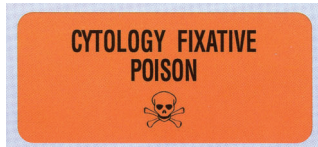
Ordering: All labels are 500 each per roll



77060-01



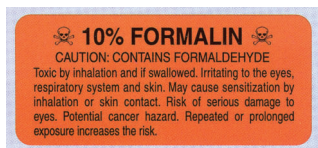
77060-12



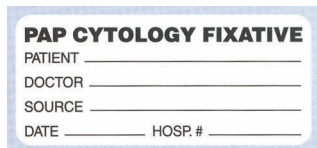
77060-13



77060-14



77060-16

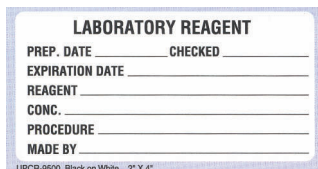


77060-17

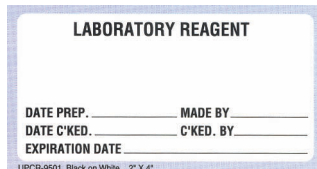
Cat.#	Description	Pack
77060-01	Model UPCR-5008, 3/4" x 2"	500/Roll
77060-12	Model UPCR-6042, 3/4" x 2"	500/Roll
77060-13	Model UPCR-6043, 1" x 2 1/4"	500/Roll
77060-14	Model UPCR-6044, 1" x 2 1/4"	500/Roll
77060-16	Model UPCR-6046, 1" x 2 1/4"	500/Roll
77060-17	Model UPCR-6047, 1" x 2 1/4"	500/Roll

2. Laboratory Reagent Labels

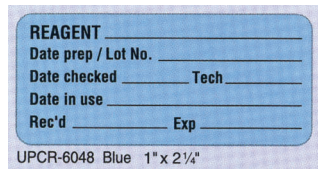
Ordering: All labels are 500 per roll



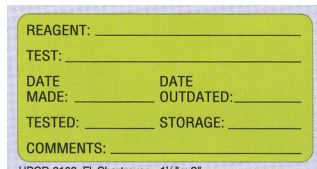
77061-01



77061-02



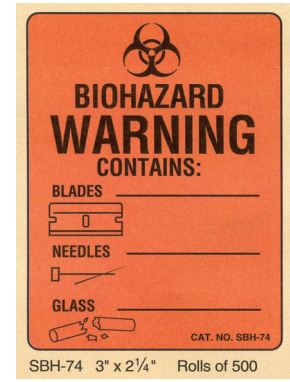
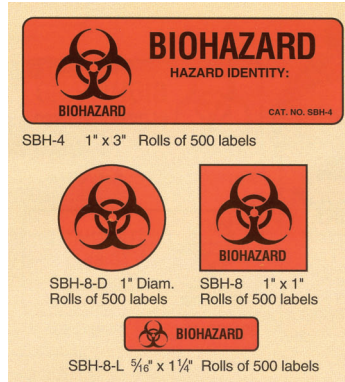
77061-03



77061-04

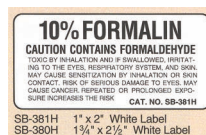
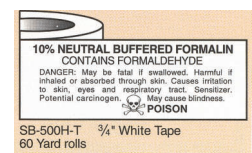
Cat.#	Description	Pack
77061-01	Model UPCR-9500, 2" x 4"	500/Roll
77061-02	Model UPCR-9501, 2" x 4"	500/Roll
77061-03	Model UPCR-6048, 1" x 2 1/4"	500/Roll
77061-04	Model UPCR-9102, 1 1/2" x 3"	500/Roll

3a. Specialty Warning Labels



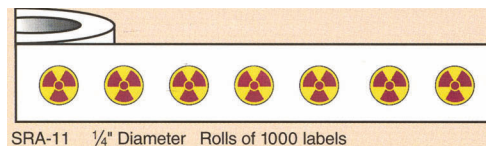
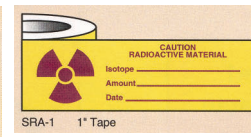
Cat.#	Description	Pack
77064-01	Biohazard Model SBH-4, 1" x 3"	500/Roll
77064-02	Biohazard Model SBH-8D, 1" Dia.	500/Roll
77064-03	Biohazard Model SBH-8, 1" x 1"	500/Roll
77064-04	Biohazard Model SBH-8L, 5/16" x 1 1/4"	500/Roll
77064-10	Biohazard Model SBH-5, 3" x 2 1/2"	100/Pk
77064-15	Warning, Model SBH-74, 3" x 2 1/4"	500/Roll

3b. Specialty Warning Labels



Cat.#	Description	Pack
77064-20*	Contaminated, Model SBH-48C, 2 x 6"	12.5 yds/Roll
77064-30	Formalin, Model SB-381H, 1" x 2"	500/Roll
77064-31	Formalin, Model SB-380H, 1 1/4" x 2 1/2"	500/Roll
77064-34*	Formalin, Model SB-500HT, 1" x 2 1/2"	60 yds/roll
77064-40	Xylene, Model SB-388H, 1" x 2"	500/Roll
77064-42	Alcohol, Model SB-389H, 1" x 2"	500/Roll

3c. Specialty Warning Labels



Cat.#	Description	Pack
77064-50	Danger, Model SL-7, 1" x 500" Roll	12.5 yds/Roll
77064-55*	Radioactive, Model SRA-1, 1" Wide	12.5 yds/Roll
77064-56*	Radioactive, Model SRA-11, 1/4" Dia.	1,000/Roll

4. Pathology Specimen Labels

Ordering: all labels are 500 per roll

NAME _____ Age _____
 Number _____ Date _____
 Doctor _____

UPCR-6052 Black on White 1" x 2 1/4"

77063-01

NAME _____
 Hosp. No. _____ Tech. _____
 Location _____ Date _____ Time _____

UPCR-6054 Black on White 1" x 2 1/4"

77063-02

PATHOLOGY SPECIMEN

Name _____ Date _____
 Specimen _____
 Doctor _____

10% FORMALIN POISON

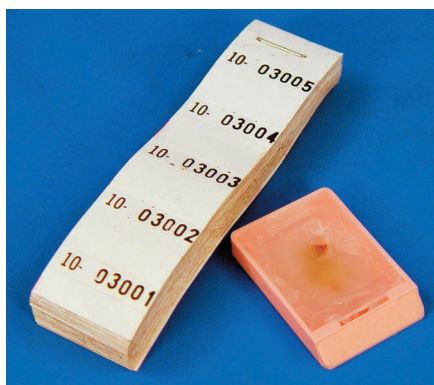
UPCR-7021 Black on White 1" x 3"

77063-03

Cat.#	Description	Pack
77063-01	Model UPCR-6052, 1" x 2 1/4"	500/Roll
77063-02	Model UPCR-6054, 1" x 2 1/4"	500/Roll
77063-03	Model UPCR-7021, 1" x 3"	500/Roll

Three Step Pathology CNI Labels

Identify and correlate pathology specimens with the Specialty CNI System (Consecutive Number Identification), a three-part labeling program that saves time and reduces errors. Three different labels are each imprinted with identical consecutive numbers, each designed to function in a different step of tissue examination.



Step 1: Numbering the cassette — The first label features the number printed in permanent, black ink on sturdy card for use inside cassettes. These 3/4" x 1 1/2" labels come in booklet form with a perforation between each label. The label has no adhesive. It fits beside the tissue, inside the cassette, and remains unaltered throughout the use of solvents.

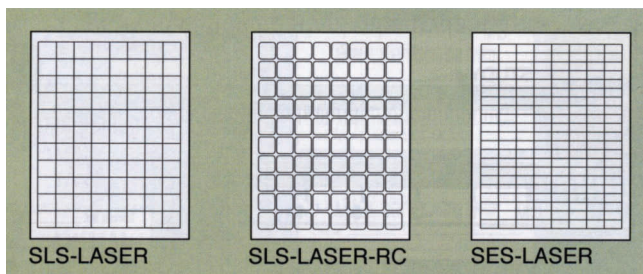
Step 2: Numbering the paraffin block and/or specimen storage container — The second number label has pressure sensitive adhesive and measures 1/4" x 1" to fit the paraffin block. This label can also be used on the specimen storage container, correlating the whole specimen with its sections. Permanent adhesive secures the label in place and makes any removal attempt or alteration immediately evident.

Step 3: Numbering the microscope slide — A 1 5/16" square, permanent pressure sensitive adhesive label carries the number in step three. These labels hold firmly on the glass slide and ensure correct identification through examination and storage.

Package: 1000 labels each step, total 3,000 labels for three steps

Cat.#	Description	Pack
77040-03	3-Step CNI Pathology Labels	3,000/pk.

Slide Label Sheet Form for Laser Printing

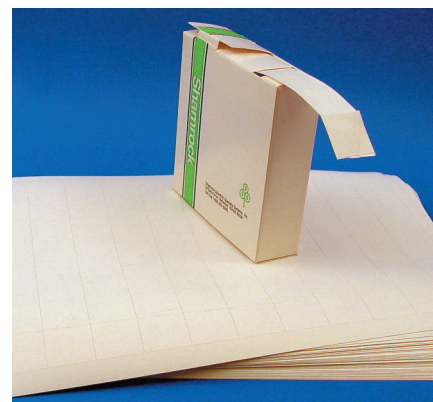


Available in standard thickness only with square corner or round corner on 8 1/2" x 11" sheet. Price is 5000 labels per carton.

Cat. #	Description	Label Size	Thickness
77021-10	Label Model SLS-LASER	1 5/16" x 1 5/16"	Standard
77021-11	Label Model SLS-LASER RC	1 5/16" x 1 5/16"	Standard
77021-12	Label Model SES-LASER	1 5/32" x 1 5/16"	Standard

Microscope Slide Labels

These specialty Microscope Slide Labels and matching End Labels are available in standard (thin) or pathology (tissue high) thickness, and square or round corner (RC). Permanent adhesive holds labels in place during use and long-term storage.



Sheet Form Size is 5 1/4" x 8". Prices are per thousand labels

Cat. #	Description	Label Size	Thickness
77022-05	Label Model SLS-15	1 5/16" x 1 5/16"	Standard
77022-06	Label Model SLS-15-RC	1 5/16" x 1 5/16"	Standard
77022-10	Label Model SLSP-15	1 5/16" x 1 5/16"	Pathology
77022-11	Label Model SLSP-15-RC	1 5/16" x 1 5/16"	Pathology

End Label

77021-50	Label Model SES-16	1 5/32" x 1 5/16"	Standard
77021-51	Label Model SES-16-RC	1 5/32" x 1 5/16"	Standard
77021-55	Label Model SESP-16	1 5/32" x 1 5/16"	Pathology
77021-56	Label Model SESP-16-RC	1 5/32" x 1 5/16"	Pathology

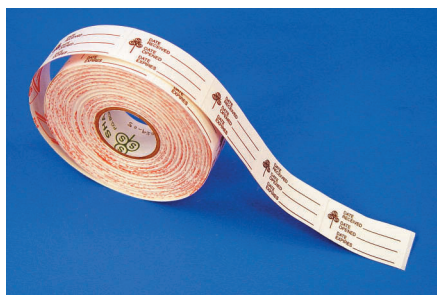
Rolls — Prices are per thousand labels

Cat. #	Description	Label Size	Thickness
77020-05	Label Model SLR-15	1 5/16" x 1 5/16"	Standard
77020-06	Label Model SLR-15-RC	1 5/16" x 1 5/16"	Standard
77020-10	Label Model SLRP-15	1 5/16" x 1 5/16"	Pathology
77020-11	Label Model, SLRP-15-RC	1 5/16" x 1 5/16"	Pathology

End Label

77020-50	Label Model SER-16	1 5/32" x 1 5/16"	Standard
77020-51	Label Model SER-16RC	1 5/32" x 1 5/16"	Standard
77020-55	Label Model SERP-16	1 5/32" x 1 5/16"	Pathology
77020-56	Label Model SERP-16RC	1 5/32" x 1 5/16"	Pathology

SPECIALTY LABELS

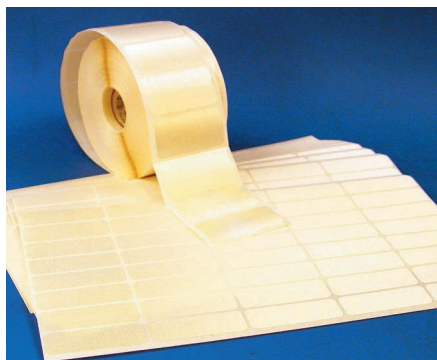


Specialty Expiration Labels

Quickly identify outdated laboratory items such as reagents and controls. These labels provide space for noting the date that the items were received, opened and when it will expire. A permanent adhesive holds the label firmly in place on a variety of surfaces.

The label measures 3/4" x 1 1/2" and are supplied in rolls of 500 labels.

Cat.#	Description	Pack
77024-05	Expiration Labels	500/pk.



Specialty Satin Cloth Labels

Designed to adapt to a wide range of laboratory procedures. These labels withstand dry ice, liquid gasses, deep freezes, acids, oils, greases, salt water, fresh water and soap. Their textured surface may be marked with pen, pencil, or felt marker. Pressure-sensitive adhesive sticks to almost any surface or shape. Specialty Satin Cloth Labels are supplied pre-cut on protective backing paper. Each label is perforated making it easy to remove the label from the roll.

These labels are available in a variety of sizes. Labels 3/8" in width come in sheet form only; all other sizes come on rolls of 1000 labels.

Cat.#	Label Size	Quantity	Cat.#	Label Size	Quantity
77030-01	3/8" x 1", Sheet	1,000/pk	77030-08	1 1/4" x 2 1/2", Roll	1,000/pk
77030-02	3/8" x 2", Sheet	1,000/pk	77030-09	1 1/2" x 2", Roll	1,000/pk
77030-03	1" x 2", Roll	1,000/pk	77030-10	1 1/2" x 2 1/4", Roll	1,000/pk
77030-04	1" x 2 1/4", Roll	1,000/pk	77030-11	1 1/2" x 2 1/2", Roll	1,000/pk
77030-05	1" x 2 1/2", Roll	1,000/pk	77030-12	1 3/4" x 2 3/4", Roll	1,000/pk
77030-06	1 1/4" x 2", Roll	1,000/pk			

Warning Labels for General Laboratory Use

Standard warning labels to identify cytotoxic samples and materials. Paper labels leave no residue behind after removal, and are for use at ambient temperatures.



Cat. #	Label Text/Symbol	Label Size	Material	Perf.	Labels/Roll
77430-01	Cytotoxic/Cytotoxique*	1 x 1.5" (25.4 x 38mm)	Paper	Yes	1,000
77430-02	Cytotoxic/Cytotoxique	1 x 1.5" (25.4 x 38mm)	Paper	Yes	1,000
77430-03	Cytotoxic/Cytotoxique*	2 x 2" (50.8 x 50.8mm)	Paper	Yes	1,000
77430-04	Cytotoxic/Cytotoxique*	4 x 4" (101.6 x 101.6mm)	Paper	Yes	500
77430-05	Incinerate	2 x 9" (50.8 x 229mm)	Paper	No	500
77430-06	Incineration	1.312 x 9" (33.3 x 229mm)	Paper	No	500
77430-07	GHS*	4 x 3.5" (101.6 x 88.9mm)	Paper	No	500
77430-08	Radioactive*	2.72 x 1" (69 x 25.4mm)	Laminated Paper	Yes	1,000
77430-09	Radioactive	2.72 x 1" (69 x 25.4mm)	Laminated Paper	Yes	1,000
77430-10	R&D Use Only*	1 x 2" (25.4 x 50.8mm)	Laminated Plastic	Yes	500
77430-11	Calibrate Before Use	1 x 2" (25.4 x 50.8mm)	Laminated Plastic	Yes	500

* Removable

Wash-Off Labels™

Rinse away leaving no adhesive residue

Easy Removal – Labels Wash-Off in 1 rinse cycle at any water temperature

Autoclavable – Labels resist exposure to steam* at 121° C

Environmentally Safe – 100% biodegradable and FDA-compliant

Temperature-Resistant – Long term storage best between 32° F to 70° F (0° C to 21° C)

Laser Printable – Accepts laser printing and other markings



Labels dissolve under running water in less than 30 seconds.

*Build-up of liquid water on the label surface will dissolve the material

Cat. #	Color	Size (Inches / Millimeters)	Qty.
71826-10	White	2.625" x 1.00" / 67mm x 25mm	750/pk.
71826-20	White	4.00" x 1.00" / 102mm x 25mm	500/pk.

Pre-Printed Wash Off Labels



Pre-printed Wash-Off Labels make it easy to mark bottles containing harmful chemicals or reagents. These convenient labels will save time and improve the safety of every lab. Wash the labels away when the label is no longer needed.



71826-22	Warning: Poison	1"x1" (25 x 25mm)	250/roll
71826-24	Warning: Corrosive	1"x1" (25 x 25mm)	250/roll
71826-25	Warning: Radioactive	1"x1" (25 x 25mm)	250/roll
71826-26	Warning: Ready for Use	1"x1" (25 x 25mm)	250/roll
71826-27	Warning: Do Not Use	1"x1" (25 x 25mm)	250/roll
71826-28	Warning: Flammable	3"x2" (76 x 51mm)	250/roll
71826-29	Warning: Poison	3"x2" (76 x 51mm)	250/roll
71826-31	Warning: Corrosive	3"x2" (76 x 51mm)	250/roll
71826-33	Warning: Ready for Use	3"x2" (76 x 51mm)	250/roll
71826-34	Warning: Do Not Use	3"x2" (76 x 51mm)	250/roll

WetGrip

Labels for Moist, Frosty or Frozen Tubes

- “GRIPS” to wet, frost-covered and frozen surfaces
- Temperature resistant to -80°C
- Compatible with centrifuge rotors
- Resistant to chemicals and solvents
- Adheres to plastics, glass, metals and even paperboard boxes
- Choose your format: laser sheets for printing many labels at once, direct thermal labels for printing a few labels at a time or labels on a roll for handwriting labels

Now available – WetGrip On Rolls! Ideal for handwriting individual labels. WetGrip On Rolls are compatible with most laboratory markers.



ALL LABELS ARE CLEAR, ON 1" I.D. CORES WITH 1,000 LABELS/ROLL.

Dymo and LabelWriter are registered trademarks of the Dymo Corp., an Esselte Office Products Co.

Direct Thermal (Temp. Range: -80°C to 70°C)

Cat. #	Label SIZE	Ideal Use	Qty.
	(Inches/Millimeters)		
77594-10	1.05" x 0.50" / 27mm x 13mm	0.5ml tubes	each
77594-20	1.50" x 0.50" / 38mm x 13mm	1.5ml tubes	each
77594-30	1.50" x 0.75" / 38mm x 19mm	2.0ml tubes	each
77594-40	3/8" diameter / 9.5mm diameter	0.5ml tubes	each
77594-50	2.00" x 0.25" / 51mm x 6mm	Microplates	each
77594-60	1.50" x 0.50" - 3/8" diameter spot	1.5ml tubes	each

Cat. #	Description	Qty.
77577-50	Dymo® LabelWriter® 450	each

On A Roll (Temp. Range: -80°C To 100°C)

Cat. No.	Label Size	Use	Unit
77595-60	1.28" x 0.50"/33mm x 13mm	1.5ml tubes	1,000/roll
77595-65	1.50" x 0.75"/38mm x 19mm	1.5ml - 2.0ml tubes	1,000/roll

Laser Sheets (Temp. Range: -80°C to 100°C)

Cat. #	Tag Size Inches (mm)	Sheet Layout	Labels/Sheet		Ideal Use	Qty.
			Labels/Sheet	Labels/Sheet		
77595-10	1.28" x 0.50" 33mm x 13mm	5 Across 17 Down	85	1.5ml tubes	1,700/pk.	
			119	0.5ml tubes		
77595-20	0.94" x 0.50" 24mm x 13mm	7 Across 17 Down	60	1.5ml - 2.0ml tubes	1,500/pk.	
			96	Microscope Slides		
77595-30	1.50" x 0.75" 38mm x 19mm	5 Across 12 Down	85	1.5ml tubes	2,380/pk.	
			119	0.5ml tubes		
77595-40	0.875" x 0.875" 22mm x 22mm	8 Across 12 Down	60	1.5ml - 2.0ml tubes	1,500/pk.	
			96	Microscope Slides		

SPECIALTY LABELS



III XyliTAG™ Labels

Chemical-resistant labels

These labels will withstand exposure to acetone, acetonitrile (ACN), alcohols, dimethyl sulfoxide (DMSO), hexane, methyl ethyl ketone (MEK), toluene, xylene, and other harsh chemicals and solvents.

They are ideal for the identification of microscope slides and tissue cassettes in cytology and histology labs.

Intended for use on flat surfaces.

Can be printed with most brands of thermal transfer barcode printers.

Will not acquire coloration from histological stains and will maintain the white background through staining procedures.

Color option: W=White



0.75" x 0.75" 0.866" x 0.75" 0.866" x 0.59" 0.866" x 0.75" 0.875" x 0.875" 0.9" x 0.75" 0.9375" x 0.9375" 0.945" x 1.0625" 0.975" x 0.92" 1" x 0.5" 1" x 1"

Cat. #	Color	Core	Label Size	Labels Across	Perf.	Labels/Roll
77425-01W	White	1"	0.75 x 0.75" (19 x 19mm)	1 square	Yes	1,000
77425-02W	White	3"	0.75 x 0.75" (19 x 19mm)	1 square	Yes	1,000
77425-03W	White	1"	0.866 x 0.59" (22 x 15 mm)	1 rectangle	No	3,000
77425-04W	White	3"	0.866 x 0.59" (22 x 15 mm)	1 rectangle	No	3,000
77425-05W	White	1"	0.866 x 0.75" (22 x 19 mm)	4 rectangles	Yes	4,000
77425-06W	White	3"	0.866 x 0.75" (22 x 19 mm)	4 rectangles	Yes	8,000
77425-07W	White	3"	0.866 x 0.75" (22 x 19 mm)	4 rectangles	Yes	20,000
77425-08W	White	1"	0.875 x 0.875" (22 x 22mm)	1 square	Yes	1,000
77425-09W	White	3"	0.875 x 0.875" (22 x 22mm)	1 square	Yes	1,000
77425-10W	White	1"	0.875 x 0.875" (22 x 22mm)	4 squares	Yes	4,000
77425-11W	White	3"	0.875 x 0.875" (22 x 22mm)	4 squares	Yes	4,000
77425-12W	White	1"	0.9 x 0.75" (23 x 19mm)	1 rectangle	Yes	1,000
77425-13W	White	3"	0.9 x 0.75" (23 x 19mm)	1 rectangle	Yes	1,000
77425-14W	White	1"	0.9375 x 0.9375" (23.8 x 23.8mm)	1 square	Yes	1,000
77425-15W	White	3"	0.9375 x 0.9375" (23.8 x 23.8mm)	1 square	Yes	1,000
77425-16W	White	1"	0.9375 x 0.9375" (23.8 x 23.8mm)	2 squares	Yes	2,000
77425-17W	White	3"	0.9375 x 0.9375" (23.8 x 23.8mm)	2 squares	Yes	2,000

III XyliTUFF™ Labels

For the identification of histology cassettes

These labels are ideal for the identification of cassettes* routinely used in tissue and biopsy embedding and processing.** They can be printed with most brands of thermal transfer barcode printers using TC-class ribbons. Will not acquire coloration from histological stains and will maintain the white background through staining procedures.

* For the best adherence and chemical resistance, they are recommended to be used on smooth surface cassettes. They can withstand solvent and chemical exposures in:

Xylene: 2 hours, **Ethanol 100%:** 8 hours, **Hot Paraffin Wax:** 2 hours

**Preliminary testing is strongly recommended for use in automated vacuum tissue processors.

Color option: W=White

Cat. #	Color	Core	Label Size	Labels Across	Perf.	Labels/Roll
77425-18W	White	1"	0.75 x 2" (19 x 5mm)	1 rectangle	No	5,000
77425-19W	White	3"	0.75 x 2" (19 x 5mm)	1 rectangle	No	10,000
77425-20W	White	1"	1 x 0.25" (25.4 x 6.35mm)	1 rectangle	Yes, every 2 labels	4,000
77425-21W	White	3"	1 x 0.25" (25.4 x 6.35mm)	1 rectangle	Yes, every 2 labels	10,000
77425-22W	White	1"	1 x 0.276" (25.4 x 7mm)	1 rectangle	Yes, every 2 labels	4,000
77425-23W	White	3"	1 x 0.276" (25.4 x 7mm)	1 rectangle	Yes, every 2 labels	8,000



77425-18W

III Xylene Resistant Thermal Transfer Labels

Pre-cut, Peel-off labels for thermal transfer printers

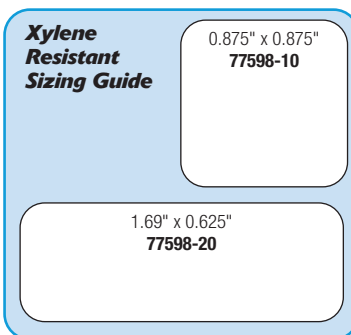
Xylene-Resistant - Polyester labels provide strong solvent resistance, specifically to multiple xylene washes as well as longer term exposure to xylene.

Versatile - Temp. Range: -40°C to 121°C. Xylene labels resist boiling water baths, autoclaving and moderate freezer temperatures.

Specially Designed - Rolls are specially top-coated to readily accept thermal transfer printing.

Convenient - Labels are available in a microscope slide size as well as a unique general purpose size for multiple uses.

Note: 100% Virgin polypropylene tubes are recommended. Avoid the use of siliconized surfaces



Cat. No.	Label Size	Ideal Use	Unit
77598-10	0.875 x 0.875" (22 x 22mm)	Microscope Slides	1000/roll
77598-20	1.69" x 0.625" (43 x 16mm)	General Purpose	1000/roll
77592-55	Resin Ribbon – 2.50" x 244'		each

RELATED PRODUCTS...

III Solvent Resistant Pens

Feature an ultra-permanent ink.

- Resistant to xylene, alcohol, acetone and formalin
- Ideal for histology and cytology
- Markings will not run on embedding cassettes or frosted/painted slides and labware, even after repeated washes and solution treatments
- Remove markings with acetic acid, an ethanol/xylene mixture or paraffin
- Testing advised before use

Note: These pens work best on labels or frosted surfaces. They do not work well on smooth surfaces, such as glass or plastic.

Cat No.	Description	Qty.
62053-B	Solvent Resistant, Black Extra Fine 0.6mm	each
62053-R	Solvent Resistant, Red Extra Fine 0.6mm	each

III HyhiTAG™ Thermal Transfer Labels

Autoclave-resistant permanent labels

FEATURES

- Waterproof and weatherproof
- Temperature range from -60°C to +150°C (-76° F to + 300°F)

Use these high temperature labels for the identification of various containers and surfaces for autoclaving and dry heat sterilization.

Apply them to metal, plastic, and glass surfaces. They will withstand autoclave sterilization cycles at 132°C (270°F) at 30psi pressure.

These labels and their print will survive high temperature exposures and are ideal for identifying containers and surfaces that need to be sterilized inside autoclaves, dry-heat sterilizing equipment and gamma irradiators.

Color options: W=White, BL=Blue, G=Green, O=Orange, P=Pink, R=Red, Y=Yellow

III Removable HyhiTAG™ Thermal Transfer Labels

High temperature removable labels for the identification of various containers and surfaces intended for autoclaving, dry heat sterilization and gamma irradiations.

Removability of the labels should be tested on substrates in end-user conditions.



HyhiTAG™ Thermal Transfer Labels



Removable HyhiTAG™ Thermal Transfer Labels

Cat. #	Color	Core	Label Size	Labels Across	Perf.	Labels/Roll
77426-01W	White	1"	1 x 0.6875" (25.4 x 17.5mm)	1 rectangle	No	2,000
77426-02W	White	3"	1 x 0.6875" (25.4 x 17.5mm)	1 rectangle	No	2,000
77426-03W	White	1"	1.3 x 0.625" (33 x 15.9mm)	1 rectangle	Yes	1,000
77426-04W	White	3"	1.3 x 0.625" (33 x 15.9mm)	1 rectangle	Yes	1,000
77426-05W	White	1"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes	2,000
77426-06W	White	3"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes	2,000
77426-07W	White	1"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-07BL	Blue	1"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-07G	Green	1"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-07O	Orange	1"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-07P	Pink	1"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-07R	Red	1"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-07Y	Yellow	1"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-08W	White	3"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-08BL	Blue	3"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-08G	Green	3"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-08O	Orange	3"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-08P	Pink	3"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-08R	Red	3"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-08Y	Yellow	3"	2 x 4" (50.8 x 101.6mm)	1 rectangle	Yes	250
77426-09W	White	1"	2.25 x 1.25" (57.1 x 31.7mm)	1 rectangle	Yes	2,000
77426-10W	White	3"	2.25 x 1.25" (57.1 x 31.7mm)	1 rectangle	Yes	2,000
77426-11W	White	1"	2.63 x 1.125" (66.8 x 28.6mm)	1 rectangle	Yes	2,000
77426-12W	White	3"	2.63 x 1.125" (66.8 x 28.6mm)	1 rectangle	Yes	2,000

Removable HyhiTAG™ Thermal Transfer Labels

77426-13W	White	1"	3 x 2" (76.2 x 50.8mm)	1 rectangle	Yes	1,000
77426-14W	White	3"	3 x 2" (76.2 x 50.8mm)	1 rectangle	Yes	1,000

TOUGH-TAGS

III Laser Tough-Tags®

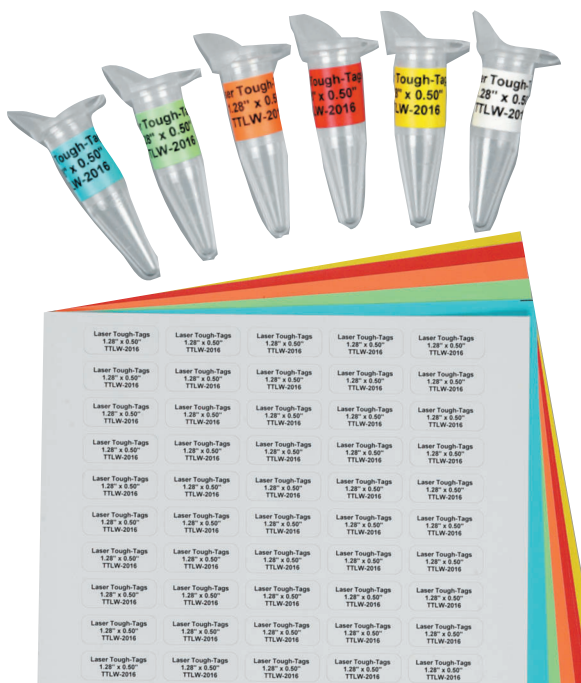
Labels for Microcentrifuge Tubes and Other Containers

Temperature-Resistant – From -40°C to 121°C. Tough-Tags resist boiling water baths, autoclaving and moderate freezer temperatures.

Tough – Chemically inert, polyester sheets resist most organic solvents and caustic agents. They adhere to most plastics*, glass and metals without cracking, peeling or degrading.

Compatible – Tubes labeled with Tough-Tags easily slide in and out of centrifuge rotors without binding.

Specially Designed – Label sheets are specially top-coated to readily accept laser printing. Heat-resistant, stay-flat sheets will not jam in laser printers.



Laser sheets are available in individual colors and also in Rainbow Packs

Laser Tough-Tags - Sizing Guide

1. Laser Tough-Tags® size 1.28" x 0.50" (33mm x 13mm).

Ideal Use: 1.5 ml tubes.

Cat. #	Color	Labels per sheet	Lay out Across	Layout Down	Labels per pack
77520-W	White	85	5	17	2125
77520-B	Blue	85	5	17	2125
77520-G	Green	85	5	17	2125
77520-O	Orange	85	5	17	2125
77520-R	Red	85	5	17	2125
77520-Y	Yellow	85	5	17	2125
77520-6	Rainbow	85	5	17	2125

2. Laser Tough-Tags® size 0.94" x 0.50" (24mm x 13mm).

Ideal Use: 0.5 ml tubes.

Cat. #	Color	Labels per sheet	Lay out Across	Layout Down	Labels per pack
77521-W	White	119	7	17	2975
77521-B	Blue	119	7	17	2975
77521-G	Green	119	7	17	2975
77521-O	Orange	119	7	17	2975
77521-R	Red	119	7	17	2975
77521-Y	Yellow	119	7	17	2975
77521-6	Rainbow	119	7	17	2975

3. Laser Tough-Tags® size 1.50" x 0.75" (38mm x 19mm).

Ideal Use: general purpose.

Cat. #	Color	Labels per sheet	Lay out Across	Layout Down	Labels per pack
77522-W	White	60	5	12	1500
77522-B	Blue	60	5	12	1500
77522-G	Green	60	5	12	1500
77522-O	Orange	60	5	12	1500
77522-R	Red	60	5	12	1500
77522-Y	Yellow	60	5	12	1500
77522-6	Rainbow	60	5	12	1500

4. Laser Microscope Slide Tough-Tag size 0.875" x 0.875" (22 x 22mm)

Ideal Use: general purpose.

Cat. #	Color	Labels per sheet	Lay out Across	Layout Down	Labels per pack
77523-W	White	96	8	12	2400
77523-B	Blue	96	8	12	2400
77523-G	Green	96	8	12	2400
77523-O	Orange	96	8	12	2400
77523-R	Red	96	8	12	2400
77523-Y	Yellow	96	8	12	2400
77523-6	Rainbow	96	8	12	2400

III Laser Tough-Tags® (continued)

5. CLEAR Laser Tough-Tag® 1.50" x 0.50" (38 x 13mm)

Ideal Use: 1.5 to 2.0 ml tubes

Cat. #	Color	Labels per sheet	Lay out Across	Layout Down	Labels per pack
77530-C	Clear	80	5	16	1600

6. CLEAR Laser Tough-Tag® 1.05" x 0.50" (27mm x 13mm)

Ideal Use: 0.5 ml Tube

Cat. #	Color	Labels per sheet	Lay out Across	Layout Down	Labels per pack
77531-C	Clear	96	6	16	1920

7. CLEAR Laser Tough-Tag® 1.50" x 0.75"(38mmx 19mm)

Ideal Use: General Purpose

Cat. #	Color	Labels per sheet	Lay out Across	Layout Down	Labels per pack
77532-C	Clear	60	5	12	1200

8. Laser Tough-Tag® 1.0" x 1.0" (25mm x 25mm)

Ideal Use: Microscope slide

Cat. #	Color	Labels per sheet	Lay out Across	Layout Down	Labels per pack
77526-W	White	80	8	10	1600

9. Laser Flag Tough-Tag® 2.50" x 0.50" (64mm x 13mm)

Ideal Use: 0.5 to 2.0 ml tubes

Cat. #	Color	Labels per sheet	Lay out Across	Layout Down	Labels per pack
77525-W	White	60	3	20	1500

10. Laser Teeny Tough-Tag® 0.91" x 0.32" (23mm x 8mm)

Ideal Use: 0.2ml PCR tubes

Cat. #	Color	Labels per sheet	Lay out Across	Layout Down	Labels per pack
77524-W	White	154	7	22	3850

11. Laser Tough-Tag® 1.625" x 0.625" (41mm x 16mm)

Ideal Use: General Purpose

Cat. #	Color	Labels per sheet	Lay out Across	Layout Down	Labels per pack
77528-W	White	64	4	16	1600

12. Laser Slender Edge Tough-Tag® 2.625" x 0.1875"(67mm x 5mm)

Ideal Use: for 384-well plates, half skirted PCR plates, petri dishes etc.

Cat. #	Color	Labels per sheet	Lay out Across	Layout Down	Labels per pack
77529-W	White	99	3	33	2475

13. Laser Tough-Tag® Sheet, 8.5" x 11" (216mm x 279mm)

Ideal Use: Cut to size

Cat. #	Color	Labels per sheet	Lay out Across	Layout Down	Labels per pack
77527-W	White		NA	NA	25



Microscope Slide Tough-Tags®



Sidewall Tough-Tags®

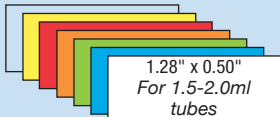
III Tough-Tags® on a Roll

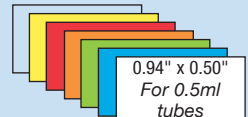



Compatible – Tough-Tags are pre-cut, peel-off labels that accept any marking instrument. They are perfectly sized to fit microcentrifuge tubes and other containers in the laboratory.

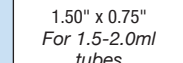
Convenient – Dispensing box assists in labeling individual tubes used in small experiments.

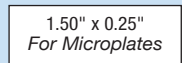
Tough-Tags on a Roll - Sizing Guide

1. 
1.28" x 0.50"
For 1.5-2.0ml tubes

2. 
0.94" x 0.50"
For 0.5ml tubes

3. 
0.81" x 0.28"
(white only)

4. 
1.50" x 0.75"
For 1.5-2.0ml tubes
(white only)

5. 
1.50" x 0.25"
For Microplates
(white only)

1. Tough-Tag® 1.28"x 0.50" (33mm x 13mm)

Ideal Use: 1.5 ml Tubes

Cat. #	Color	Labels per roll
62045-20	White	1000
62045-B	Blue	1000
62045-G	Green	1000
62045-O	Orange	1000
62045-R	Red	1000
62045-Y	Yellow	1000
62045-10	Clear	1000

2. Tough-Tag® 0.94"x 0.50" (24mm x 13mm)

Ideal Use: 0.5 ml Tubes

Cat. #	Color	Labels per roll
62044-20	White	1000
62044-B	Blue	1000
62044-G	Green	1000
62044-O	Orange	1000
62044-R	Red	1000
62044-Y	Yellow	1000
62044-10	Clear	1000

3. Teeny Tough-Tag® 0.81"x 0.28" (21mm x 7mm)

Ideal Use: 0.2ml PCR tubes

Cat. #	Color	Labels per roll
77536-W	White	1500

4. Tough-Tag® 1.50"x 0.75" (38mm x 19mm)

Ideal Use: 1.5 to 2.0 ml tubes

Cat. #	Color	Labels per roll
77537-W	White	1000

5. Sidewall Tough-Tag® 1.50"x 0.25" (38mm x 6mm)

Ideal Use: Micro plates

Cat. #	Color	Labels per roll
77538-W	White	1000

TOUGH-TAGS

Direct Thermal Tough-Tags®

For Use in Direct Thermal Printers

- Withstands temperatures from -40°C to 70°C
- Freezable in liquid nitrogen when label ends overlap (not applicable to round labels)
- Resistant to scuffing, smearing and chemicals
- Print barcodes for easy sample tracking
- Limit label waste by printing the quantity required
- Quick and easy setup for PCs or MACs
- Small printer takes up little space

1. 1.05" x 0.50" for 0.5ml tubes 77593-1

2. 1.50" x 0.50" for 1.5-2.0ml tubes 77593-2

3. 1.50" x 0.75" General Purpose Label 77593-3

4. 3/8" diameter for 0.5ml tubes 77593-4

5. 1.50" x 0.50" for 1.5-2.0ml tubes 77593-6

6. 2.00" x 0.25" For Microplates 77593-5

INNOVATIVE LABEL SOLUTIONS
 Combo Tough-Tag / Tough-Spot label set allows for quick and easy labeling of tube tops as well as the side of the tube.

Cat. #	Label Size (Inches/Millimeters)	Ideal Use	Qty.
1. 77593-1	1.05" x 0.50" / 27mm x 13mm	0.5ml tubes	2000/Roll
2. 77593-2	1.50" x 0.50" / 38mm x 13mm	1.5ml tubes	2000/Roll
3. 77593-3	1.50" x 0.75" / 38mm x 19mm	2.0ml tubes	2000/Roll
4. 77593-4	3/8" diameter / 9.5mm diameter	0.5ml tubes	2000/Roll
5. 77593-6	1.50" x 0.50" - 3/8" diameter spot	1.5ml tubes	2000/Roll
6. 77593-5	2.00" x 0.25" / 51mm x 6mm	Microplates	2000/Roll

Note: All labels are White and are on 1" I.D. cores with 2,000 per roll. 100% Virgin Polypropylene tubes are recommended for optimal performance. Avoid the use of siliconized surfaces.

Color-Coded Dual Tough-Tags™

- 500 tag and spot sets per roll
- Matte surface is suitable for accepting pencil, pen or marker writing
- Labels fit 0.5ml – 1.5ml tubes
- Will not come off in rotors, cyclers or racks
- Resistant to extreme temperatures

Cat. #	Color	Qty.
77539-B	Blue	500/roll
77539-G	Green	500/roll
77539-R	Red	500/roll
77539-W	White	500/roll
77539-Y	Yellow	500/roll



Removable Tough-Tags®

Durable labels cleanly removes from reusable surfaces

No Residue - Easily remove from surfaces without leaving any adhesive

Track Samples - Use labels to follow samples from purification to processing

Resistant - Resistant to most laboratory solvents and have shown short-term resistance to Acetone and Xylene

Useful - Great for beakers, bottles, flasks, glass vials, tubes, tube racks and pipettes

Multiple Formats - Available on rolls for hand writing or for direct thermal printing using the Dymo® LabelWriter®



Cat. #	Size	Color	Labels per roll
77517-01	1.50" x 0.50", For Handwriting	White	1000
77517-02	1.50" x 0.75", For Handwriting	White	1000
77517-03	1.05" x 0.50", Direct Thermal/Thermal	White	1000 t
77517-04	1.50" x 0.50", Direct Thermal/Thermal	White	750
77517-05	1.50" x 0.75", Direct Thermal/Thermal	White	750

Micro Tube Label; Tough-Tags™

Pre-cut, peel-off, pressure sensitive labels. They are sized to fit microcentrifuge tubes, cryo tubes and many other containers.



- They can be boiled, froze, and autoclaved.
- They are chemically resistant.
- They are thin and will not jam in the centrifuge rotor.
- They will not dry out, fall-off, or tear.

Tough-Tag® 1.28" x 0.50" (33mm x 13mm), Ideal Use: 1.5 ml Tubes

Cat. #	Color	Labels/Roll
62045-20	White	1000
62045-B	Blue	1000
62045-G	Green	1000
62045-O	Orange	1000
62045-R	Red	1000
62045-Y	Yellow	1000
62045-10	Clear	1000

Tough-Tag® 0.94" x 0.50" (24mm x 13mm), Ideal Use: 0.5 ml Tubes

Cat. #	Color	Labels/Roll
62044-20	White	1000
62044-B	Blue	1000
62044-G	Green	1000
62044-O	Orange	1000
62044-R	Red	1000
62044-Y	Yellow	1000
62044-10	Clear	1000

CLEAR-over-WHITE Laser Tough-Tag® 2.75" x 0.625" (70mm x 16mm)

Labels per Sheet: 26 – Ideal Use: protect print on label

Description: 1.45" (37mm) is clear and 1.30" (33mm) is white of the total 2.75" length to allow effective wrap around

Cat #	Color	Sheet Layout		Quantity Labels/sheet
		Across	Down	
77533-CW	Clear/White	2	13	520



TOUGH-TAGS

Thermal Transfer Tough-Tags

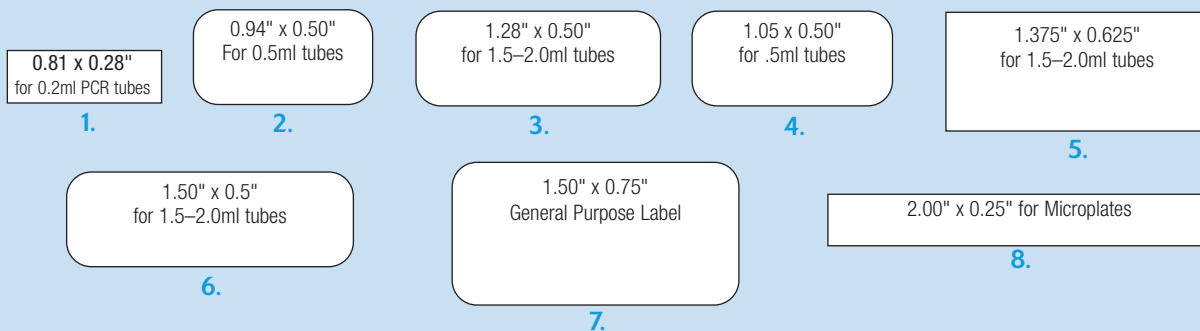
Pre-cut, Peel-Off Labels Designed for Use in Thermal Transfer Printers

Thermal Transfer Tough-Tags and Cryo-Tags are a reliable and convenient way to identify samples with text or a barcode on microtubes, microplates, bottles and other laboratory containers.

- Unique solvent-resistant, acrylic-based adhesive provides excellent cold temperature performance
- Print crisp, clear, professional quality labels
- Resists degradation from scuffing, chemicals, moisture and wide temperature fluctuations
- Specially coated for use with a resin ribbon that provides the best performance under extreme conditions
- Print as little as one label at a time, eliminating label waste and saving time and money



SIZING GUIDE: Thermal Transfer Labels for Storage in Temperatures From -196°C to 80°C



Tough-Tags on a 1" I.D. Core with 2,000 labels per roll

Cat. #	Tag Size (Inches)	Qty.
1. 77591-1	0.94 x 0.50"	2,000/roll
2. 77591-2	1.28 x 0.50"	2,000/roll
3. 77591-3	1.375 x 0.625"	2,000/roll
4. 77591-4	1.50 x 0.75"	2,000/roll
5. 77591-5	2.0 x 0.25"	2,000/roll

Tough-Tags on a 3" I.D. Core with 4,000 labels per roll

Cat. #	Tag Size (Inches)	Qty.
1. 77591-10	0.94 x 0.50"	2,000/roll
2. 77591-20	1.28 x 0.50"	2,000/roll
3. 77591-30	1.375 x 0.625"	2,000/roll
4. 77591-40	1.50 x 0.75"	2,000/roll
5. 77591-50	2.0 x 0.25"	2,000/roll

Thermal Transfer Accessories

Cat. #	Description	Qty.
77592-55	Resin Ribbon 2.50" x 244' for TLP 2844	each

Bake Tough-Tag®

1.50" x 0.75" (38 x 19mm)

Ideal Use: Oven Sterilization



Bake Tags are oven-safe marking labels that withstand conventional oven-sterilization (typically 180°C) or heating to inactivate RNase, DNase and other enzymes. Bake Tags will withstand autoclaving, cryogenic freezer storage conditions and boiling baths, without peeling or falling off.

Cat #	Color	Labels/roll	Qty/pk
77540-W	White	250	each

Thermal Transfer Handheld Printer Labels

Note: All labels are White and are on 1" I.D. cores with 2,000 per roll. 100% Virgin Polypropylene tubes are recommended for optimal performance. Avoid the use of siliconized surfaces.

Cat. No.	Description	Qty.
77596-1	Thermal Transfer Tough-Tags 1.375" x 0.625"	500/roll
77596-51	Thermal Transfer Resin Ribbon	roll

Tough-Tag Station

Conveniently holds up to 6 rolls of Tough-Tags, Tough-Spots or Cryo-Tags. Utilize the ledge to easily write on labels for sample identification.

*77582-100 does not fit the Tough-Tag Station

Cat. #	Description	Qty.
77590-10	Tough-Tag Station	each



Tough-Tag Dispenser

The Tough-Tag Dispenser – For use with Tough-Tags, Cryo-Babies and Tough-Tag Spots up to 1 3/8" wide. Hold up to 4 rolls. Outer Dimension: 7" W x 5" D x 4" H

Cat. #	Description	Qty.
77590	Tough-Tag Dispenser	each



TOUGH-TAGS

III Laser Tough-Spots® on Sheets

Pre-Cut Peel-Off Labels for Microcentrifuge Tube Tops

Temperature-Resistant – Withstands freezer temperatures down to 196°C (liquid and vapor phase nitrogen), boiling water baths (100°C), autoclaving and moderate oven temperatures (150°C).

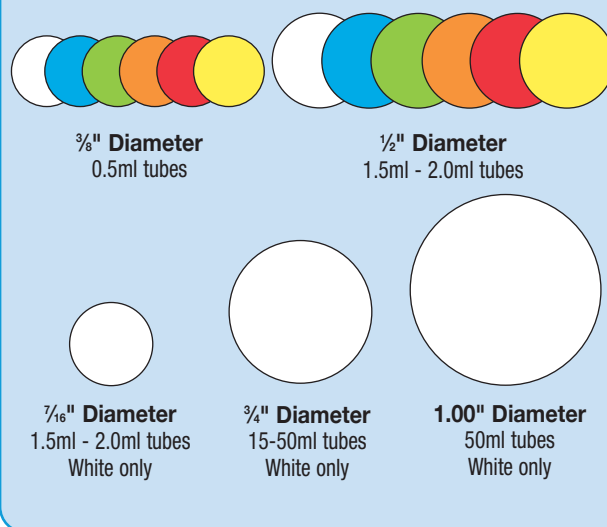
Tough – Chemically inert labels resist most organic solvents and caustic agents. They adhere to plastics*, glass and metals without cracking, peeling or degrading.

Specially Designed – Label sheets are specially top-coated to readily accept laser printing. Heat-resistant, stay-flat sheets will not jam laser printers.

Innovative – Made with a flexible, polyolefin⁺ label material and acrylic adhesive. This unique combination expands and contracts together with temperature fluctuations, resulting in a strong adhesive bond.



Laser Tough-Spots - Sizing Guide



EMS#	Color	Labels per sheet	Lay out Across	Layout Down	Size	Labels per pack
77585-W	White	192	12	16	3/8"	3,840
77585-B	Blue	192	12	16	3/8"	3,840
77585-G	Green	192	12	16	3/8"	3,840
77585-O	Orange	192	12	16	3/8"	3,840
77585-R	Red	192	12	16	3/8"	3,840
77585-Y	Yellow	192	12	16	3/8"	3,840
77585-05	Rainbow*	192	12	16	3/8"	3,840
77585-44	White	234	13	18	7/16"	4,680
77587-W	White	192	12	16	1/2"	3,840
77587-B	Blue	192	12	16	1/2"	3,840
77587-G	Green	192	12	16	1/2"	3,840
77587-O	Orange	192	12	16	1/2"	3,840
77587-R	Red	192	12	16	1/2"	3,840
77587-Y	Yellow	192	12	16	1/2"	3,840
77587-05	Rainbow*	192	12	16	1/2"	3,840
77588-75	White	108	9	12	3/4"	2,160
77588-100	White	63	7	9	1"	1,260

* Rainbow Pack: includes 4 sheets of each color: Blue, Green, Orange, Red, Yellow

III Specialty Tough-Spots®

Temperature Resistant - From -196°C to 80°C

Save Time - Preprinted Tough-Spots make labeling and identifying samples quick and easy. Use the numbered Tough-Spots to identify a series of samples - no handwriting or printing needed.

Color Coded - The best of both worlds! Each color coded ToughSpot has a distinctly different color to identify similar samples and also includes a white area to clearly write a quick note about it.

Safety - Lab safety is always a top priority. Use the Biohazard or Radioactive Tough-Spots to identify tubes or other vessels containing hazardous materials.



Cat. No.	Label Size	Description	Unit	Cat. No.	Label Size	Description	Unit
77593-9	7/16" Bullseye Tough-Spots	Dark Blue	1000	77593-14	3/8" BioHazard Tough-Spots	BioHazard	1000
77593-11	7/16" Bullseye Tough-Spots	Dark Green	1000	77593-15	Printed Tough-Spots	1 to 10	1000
77593-12	7/16" Bullseye Tough-Spots	Copper	1000	77593-16	Printed Tough-Spots	1 to 100	1000
77593-13	7/16" Bullseye Tough-Spots	Plum	1000	77593-18	3/8" Tough-Spots	Radioactive Warning	1000

III Tough Spots® On a Roll

Pre-cut Peel-off Round Labels for Microcentrifuge Tube Tops



Easy To Write On – PVC labels accept writing from most lab markers including our Solvent Resistant Pens and Teeny Writers.

Convenient – Dispensing box assists in labeling individual tubes used in small experiments.

Options – A variety of sizes, colors and formats ensures the right label for the job.

Tough-Spots on a Roll Sizing Guide

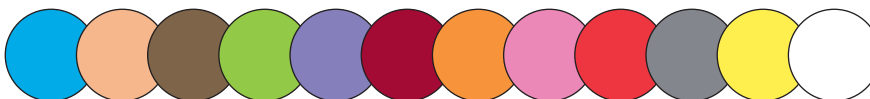
1. 3/8" diameter

for 0.5ml tubes



2. 1/2" diameter

for 1.5ml - 2.0ml tubes



3. 3/16" diameter

for 0.2ml tubes
White only



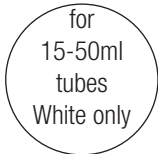
4. 7/16" diameter

for 1.5 - 2.0ml tubes
White only



5. 3/4" diameter

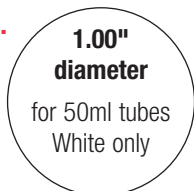
for
15-50ml
tubes
White only



6.

1.00" diameter

for 50ml tubes
White only



Cat No.	Color	Labels per roll	Dia.	Cat No.	Color	Labels per roll	Dia.
77582-18	White	1500	3/16"	77581-W	White	1000	1/2"
77580-W	White	1000	3/8"	77581-B	Blue	1000	1/2"
77580-B	Blue	1000	3/8"	77581-CO	Coffee	1000	1/2"
77580-CO	Coffee	1000	3/8"	77581-GO	Gold	1000	1/2"
77580-GO	Gold	1000	3/8"	77581-G	Green	1000	1/2"
77580-G	Green	1000	3/8"	77581-LA	Lavender	1000	1/2"
77580-LA	Lavender	1000	3/8"	77581-MA	Maroon	1000	1/2"
77580-MA	Maroon	1000	3/8"	77581-O	Orange	1000	1/2"
77580-O	Orange	1000	3/8"	77581-P	Pink	1000	1/2"
77580-R	Red	1000	3/8"	77581-R	Red	1000	1/2"
77580-SI	Silver	1000	3/8"	77581-SI	Silver	1000	1/2"
77580-Y	Yellow	1000	3/8"	77581-Y	Yellow	1000	1/2"
77580-05	Rainbow*	1000	3/8"	77582-75	White	500	3/4"
77580-44	White	1000	7/16"	77582-100	White	500	1"

RELATED PRODUCTS...

III Teeny Writers

Teeny Writers are perfect general use lab markers.

- The Twin-Tip Teeny Writer has a fine tip and an ultra fine tip
- The original Teeny Writer has an extra fine tip
- Both are ideal for writing on Tough-Tags and Tough-Spots (neither are resistant to alcohol)
- Use for labeling samples stored at room temperature and not exposed to chemicals and/or caustic agents



Note: These pens are not resistant to alcohol.

Cat No.	Description	Qty.
62054-B	Twin-Tip, Black Fine/Ultra Fine 0.7/0.3mm tips	each
62052-B	Teeny Writer, Black Extra Fine 0.4mm tip	each

III 5 Across Tough-Spots®

White or assorted roll with 1,000 spots each of Blue, Green, Lavender, Red & Yellow



Cat No.	Color	Labels per roll	Dia.
77586-10	White	5000	3/8", 5 up
77586-11	Assorted	5000	3/8", 5 up
77586-20	White	5000	1/2", 5 up
77586-21	Assorted	5000	1/2", 5 up

TAPES AND DISPENSERS

Hi/Lo Temperature Write-On Color Tape

These color-coded label tapes work well with all glass and plastic labware, racks, tubing, bags, boxes, and cabinets. It adheres to any surface and peels off without leaving a sticky residue. Tapes resist moisture and most solvents and can withstand autoclaving (250°F). It may be used as well down to -73°C.

All rolls fit on a standard 1" (25.4 mm) or 3" (76 mm) core. Tape is available in widths of 1/2" (12.7 mm), 3/4" (19 mm), and 1" (25.4 mm), 40 yards (36.6 M) long.



Write-On Color Coded Lab Tapes (Displayed with Model 55-61705305 Tape Dispenser)

Cat #	Core	Width mm (in)	Length, yards	Color	Pack
77009-W1	1"	12.7 (1/2")	15 (13.7m)	White	each
77009-W2	1"	19.0 (3/4")	15 (13.7m)	White	each
77009-W3	1"	25.4 (1")	15 (13.7m)	White	each
77010-W1	3"	12.7 (1/2")	40 (36.6m)	White	each
77010-W2	3"	19.0 (3/4")	40 (36.6m)	White	each
77010-W3	3"	25.4 (1")	40 (36.6m)	White	each
77011-W1	3"	12.7 (1/2")	60 (54.8m)	White	each
77011-W2	3"	19.0 (3/4")	60 (54.8m)	White	each
77011-W3	3"	25.4 (1")	60 (54.8m)	White	each
77010-R1	3"	12.7 (1/2")	40 (36.6m)	Red	each
77010-R2	3"	19.0 (3/4")	40 (36.6m)	Red	each
77010-R3	3"	25.4 (1")	40 (36.6m)	Red	each
77009-Y1	1"	12.7 (1/2")	15 (13.7m)	Yellow	each
77009-Y2	1"	19.0 (3/4")	15 (13.7m)	Yellow	each
77009-Y3	1"	25.4 (1")	15 (13.7m)	Yellow	each
77010-Y1	3"	12.7 (1/2")	40 (36.6m)	Yellow	each
77010-Y2	3"	19.0 (3/4")	40 (36.6m)	Yellow	each
77010-Y3	3"	25.4 (1")	40 (36.6m)	Yellow	each
77009-G1	1"	12.7 (1/2")	15 (13.7m)	Green	each
77009-G2	1"	19.0 (3/4")	15 (13.7m)	Green	each
77009-G3	1"	25.4 (1")	15 (13.7m)	Green	each
77010-G1	3"	12.7 (1/2")	40 (36.6m)	Green	each
77010-G2	3"	19.0 (3/4")	40 (36.6m)	Green	each
77010-G3	3"	25.4 (1")	40 (36.6m)	Green	each
77010-B1	3"	12.7 (1/2")	40 (36.6m)	Blue	each
77010-B2	3"	19.0 (3/4")	40 (36.6m)	Blue	each
77010-B3	3"	25.4 (1")	40 (36.6m)	Blue	each
77010-O1	3"	12.7 (1/2")	40 (36.6m)	Orange	each
77010-O2	3"	19.0 (3/4")	40 (36.6m)	Orange	each
77010-O3	3"	25.4 (1")	40 (36.6m)	Orange	each

Labeling Tape

Markable – Use pen, pencil or marker

No Residue – Leaves no adhesive residue when peeled off

Water Resistant – Also oil and acid resistant

Temperature – Withstands cold (-23°C) and hot (121°C) temperatures



Cat. No.	Size	Color	Qty
77627-W	0.75" x 500" (19mm x 12.7m)	White	roll
77627-Y	0.75" x 500" (19mm x 12.7m)	Yellow	roll
77627-G	0.75" x 500" (19mm x 12.7m)	Green	roll
77627-B	0.75" x 500" (19mm x 12.7m)	Blue	roll
77627-R	0.75" x 500" (19mm x 12.7m)	Red	roll
77628-W	0.75" x 2160"	White	roll
77628-Y	0.75" x 2160"	Yellow	roll
77628-G	0.75" x 2160"	Green	roll
77628-B	0.75" x 2160"	Blue	roll
77628-R	0.75" x 2160"	Red	roll

Color Lab-Tape™

For general laboratory use. Easy to write on with permanent markers. Water-resistant. Can be used on small diameter vials.

Color options: W=White, BL=Blue, G=Green, GR=Gray, M=Mint, O=Orange, P=Pink, PU=Purple, R=Red, Y=Yellow



Cat. No.	Color	Size	Qty
77431-01W	White	0.5" x 180' (13mm x 55m)	each
77431-01BL	Blue	0.5" x 180' (13mm x 55m)	each
77431-01G	Green	0.5" x 180' (13mm x 55m)	each
77431-01GR	Gray	0.5" x 180' (13mm x 55m)	each
77431-01M	Mint	0.5" x 180' (13mm x 55m)	each
77431-01O	Orange	0.5" x 180' (13mm x 55m)	each
77431-01P	Pink	0.5" x 180' (13mm x 55m)	each
77431-01PU	Purple	0.5" x 180' (13mm x 55m)	each
77431-01R	Red	0.5" x 180' (13mm x 55m)	each
77431-01Y	Yellow	0.5" x 180' (13mm x 55m)	each
77431-02W	White	0.71" x 180' (18mm x 55m)	each
77431-02BL	Blue	0.71" x 180' (18mm x 55m)	each
77431-02G	Green	0.71" x 180' (18mm x 55m)	each
77431-02GR	Gray	0.71" x 180' (18mm x 55m)	each
77431-02M	Mint	0.71" x 180' (18mm x 55m)	each
77431-02O	Orange	0.71" x 180' (18mm x 55m)	each
77431-02P	Pink	0.71" x 180' (18mm x 55m)	each
77431-02PU	Purple	0.71" x 180' (18mm x 55m)	each
77431-02R	Red	0.71" x 180' (18mm x 55m)	each
77431-02Y	Yellow	0.71" x 180' (18mm x 55m)	each
77431-03W	White	0.94" x 180' (24mm x 55m)	each
77431-03BL	Blue	0.94" x 180' (24mm x 55m)	each
77431-03G	Green	0.94" x 180' (24mm x 55m)	each
77431-03GR	Gray	0.94" x 180' (24mm x 55m)	each
77431-03M	Mint	0.94" x 180' (24mm x 55m)	each
77431-03O	Orange	0.94" x 180' (24mm x 55m)	each
77431-03P	Pink	0.94" x 180' (24mm x 55m)	each
77431-03PU	Purple	0.94" x 180' (24mm x 55m)	each
77431-03R	Red	0.94" x 180' (24mm x 55m)	each
77431-03Y	Yellow	0.94" x 180' (24mm x 55m)	each

Coverslipping Tape

CrystalView™ Coverslipping Film is a proprietary, resin coated film that eliminates the need for glass coverslips and sticky liquid mounting media.

The flexible, tri-acetate film is coated with a xylene-activated resin on the underside, and exhibits an optical clarity comparable to glass coverslips.

The coverslipped slide is free from distortion, debris, and is optimized for use on most standard automated film coverslippers.

24mm x 70 meters per roll, which can coverslip up to 1,400 slides.

Cat. No.	Description	Qty.
77014	Coverslipping Tape	5/pk



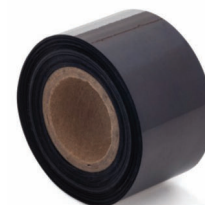
Hot Foil Tape

Thermal transfer ribbon, used for automated cassette printing. Prints up to 20,000 cassettes per roll.

Designed for use on TBS SHUR/Mark® cassette printers and Thermo MicroWriter® cassette printers.

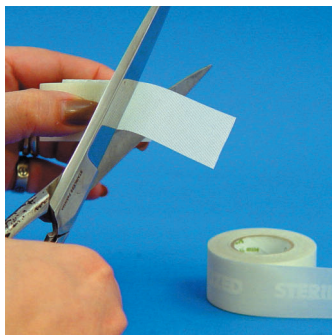
1.125" x 400' per roll

Cat. No.	Description	Qty.
77013	Hot Foil Tape	6/pk



III Cloth-Textured Hi/Lo Temperature Tape

These tapes mold tightly to any container, withstands acids, alkalis, oils and greases. It's will not crack peel or fall off in 550°F dry oven temperatures. Hi/Lo Temperature tape also sticks tightly in the dry ice, liquid gases and deep freeze of cryogenic temperatures. Tape is available in widths of 1/2", 3/4" and 1" on 250" roll. (This tape must be cut with scissors)



Cat No.	Description	Qty.
77012-05	Hi/Lo Cloth Tape, 1/2" wide	each
77012-07	Hi/Lo Cloth Tape, 3/4" wide	each
77012-10	Hi/Lo Cloth Tape, 1" wide	each

III Write Protect™

A Clear Adhesive Overwrap to Protect Writing

Write Protect is a clear adhesive tape designed to cover and protect writing or printing on labels, on the surface of microtubes and on other laboratory containers. The clear tape comes in a handy dispenser and will adhere to all plastics, glass, metals and label materials. The tape is provided in perforated, pull-off segments for 0.5ml and 1.5ml tubes. Write Protect will not dry out, peel or fall off and will withstand temperatures ranging from -196°C to 150°C.



Cat No.	Description	Qty.
77626-10	Write Protect Tape (1.25 x 0.50" / 32 x 13mm)	1,000/roll
77626-20	Write Protect Tape (1.60 x 0.63" / 41 x 16mm)	1,000/roll

III Hi Temperature Indicator Tape



Specialty cloth-textured Hi Temperature Indicator tape shows the word "STERILIZED" in bold, black letters after standard sterilization processing. The tape sticks to almost any surface or shape, holds fast in 550°F dry oven temperatures. Available in widths of 1/2", 3/4" and 1" on 250" rolls.

Cat.#	Description	Pack
77015-05	Indicator Tape, 1/2" wide	each
77015-07	Indicator Tape, 3/4" wide	each
77015-10	Indicator Tape, 1" wide	each

III Autoclave Indicator Tape

Printed diagonal stripes darken indicating a steam autoclave process is complete. Stripes darken after 5 minutes of exposure at 273°F (134°C) at steam pressure of 1.02 kg/cm2 or marker.



Cat No.	Description	Qty.
77016-20	0.75" x 2,160" (19mm x 54.9m)	roll
77016-21	1.00" x 2,160" (25.4mm x 54.9m)	roll

III Steam Autoclave Indicator Tape

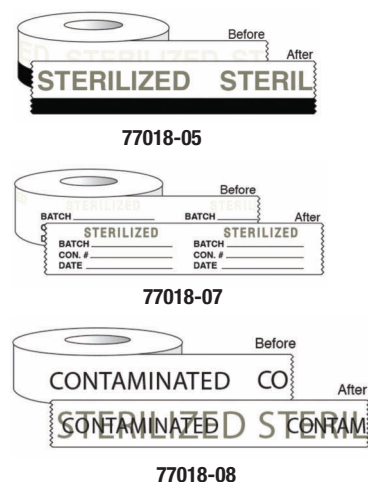
High quality tape specially designed for steam autoclave conditions. Indicator tapes provide immediate identification to verify exposure to sterilization process. Designed for use at 250°F (121°C) for 30 minutes or 270°F (132°C) for 4 minutes. Easy to read color change indicator. 60 yard rolls.



Cat No.	Description	Qty.
77016-05	Steam Autoclave Standard Tape, 1/2" wide	each
77016-07	Steam Autoclave Standard Tape, 3/4" wide	each
77017-07	Steam Autoclave Lead-Free Tape, 3/4" wide	each
77016-10	Steam Autoclave Standard Tape, 1" wide	each
77017-10	Steam Autoclave Lead-Free Tape, 1" wide	each

III Steam Autoclave Imprinted Indicator Tape

Versatile imprinted tape indicates completion of normal steam sterilization processing. Tape accepts handwritten notations, may be used to seal and identify laboratory materials before and after processing. 60 yard rolls.



Cat No.	Description	Qty.
77018-05	"Sterilized" darkens in color Tape, 3/4" wide	each
77018-07	"Sterilized" darkens in color Tape, pre-printed with "Batch", "Con.#" and "Date", 3/4" wide	each
77018-08	"Contaminated" to "Sterilized" Tape, 3/4" wide	each

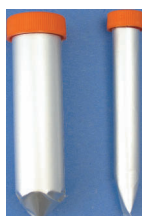
TAPES AND DISPENSERS

Light-Bloc Labels

Security – Protect light sensitive chemicals and reagents including fluorescent label conjugated antibodies

Pre Sized – Ideally sized for 15ml and 50ml centrifuge tubes makes label application easy

Multiple Uses – Ideal for labeling live cells, bacteria, DNA, protein with fluorescent labels or making up and storing light sensitive fluorescent label stock solution



77597-20 4.75" x 3.75" (12.07cm x 9.5cm) 50ml centrifuge tubes 100/roll

Perf-Tape™

Slit-Perforated Laboratory Tape – No Scissors Needed!

Convenient - Slit-perforated every 1.25" to allow for clean tearing every time



Quick - Don't waste time with scissors, simply tear and apply!

"Invisible" Perfs - High-tech perforations are designed to remain "invisible" when tape is marked and may be written over

Strong - Perf-Tape™ won't tear while it is being unrolled

No residue - Leaves no adhesive residue when peeled off

Water resistant - Also oil and acid resistant

Temperature - Withstands cold (-23°C) and hot (121°C) temperatures

0.75" x 500" (19mm x 12.7m) w/1.25" perforation

Cat. #	Color	Qty.
3676-W	White	Roll
3676-Y	Yellow	Roll
3676-G	Green	Roll
3676-B	Blue	Roll
3676-R	Red	Roll

0.75" x 2,160" (19mm x 54.9m) w/1.25" perforation

Cat. #	Color	Qty.
3677-W	White	Roll
3677-Y	Yellow	Roll
3677-G	Green	Roll
3677-B	Blue	Roll
3677-R	Red	Roll

Rocker Tape

Double-Sided Adhesive Film for Laboratory Containers



Mounting Convenient - No more fumbling with clamps

Versatile - Use with rockers, shakers, incubators or nutators

Strong - Easily rock and roll up to 300rpm and beyond*

Long Lasting - Re-usable based on load capacity and vessel number

Resistant - Keeps on rockin' even in the presence of most solvents and caustic agents

* RPM limits may vary based on load and vessel contact area. Test load recommended

Cat. No.	Description	Qty.
77512-12	1.50" x 20' (38mm x 6m)	roll
77512-20	Rocker Tape Sheets, 12" x 12"	3/pk

Kapton® Polyimide Film Tape

Kapton® Polyimide Tape is known for its superior ability to maintain its physical properties under harsh conditions. This general purpose film easily bonds to difficult surfaces with silicone adhesive, and leaves little to no residue when removed.



Microscopists find it ideal for holding samples or masking during deposition in vacuum systems (it is relatively low outgassing). It is also perfect for positioning samples in cryo or high temperature working conditions. There are no known organic solvents for the film.

Kapton® is a trademark of DuPont™

SPECIFICATIONS

Temperature Range	-269 to 400°C (-452 to 752°F)
Adhesive	Silicone
Flammability Ratio	V-0
Roll Length	32.9 m (36 yds)
Color	Amber
Kapton® Film Thickness	1 mil
Ultimate Tensile Strength (Mpa)	231 (73°F); 134 (392°F)
Ultimate Elongation (%)	72 (73°F); 83 (392°F)
Density, g/cc	1.42
Tensile Modulus (GPa)	2.5 (73°F); 2.0 (392°F)
Melting Point	none
Plastic Core Diameter	77mm (3")

Kapton® Standard Polyimide Film Tape

Tape thickness with adhesive: 2.7 mil. No liner.

77708-01	Kapton® Standard Tape, ¼"	36 yds	each
77708-02	Kapton® Standard Tape, ½"	36 yds	each
77708-03	Kapton® Standard Tape, ¾"	36 yds	each
77708-04	Kapton® Standard Tape, 1"	36 yds	each
77708-05	Kapton® Standard Tape, 2"	36 yds	each

Kapton® Single-Sided, Thin Adhesive Polyimide Film Tape

Tape thickness with thinner layer of adhesive: 2.5 mil. No liner.

77708-06	Kapton® Thin Tape, ¼"	36 yds	each
77708-07	Kapton® Thin Tape, ½"	36 yds	each
77708-08	Kapton® Thin Tape, ¾"	36 yds	each
77708-09	Kapton® Thin Tape, 1"	36 yds	each
77708-10	Kapton® Thin Tape, 2"	36 yds	each

Kapton® Double-Sided Polyimide Film Tape

Tape thickness with adhesive on both sides: 4 mil. Clear polyester liner covers one side.

77708-11	Kapton® Double-Sided Tape, ½"	36 yds	each
77708-12	Kapton® Double-Sided Tape, ¾"	36 yds	each
77708-13	Kapton® Double-Sided Tape, 1"	36 yds	each

Kapton® Low-Static, Single-Sided, Thin Adhesive Polyimide Film Tape

ESD additive in the adhesive reduces the static charge. Tape thickness with adhesive: 2.6 mil. No liner.

77708-14	Kapton® Low-Static Tape, ¼"	36 yds	each
77708-15	Kapton® Low-Static Tape, ½"	36 yds	each
77708-16	Kapton® Low-Static Tape, ¾"	36 yds	each
77708-17	Kapton® Low-Static Tape, 1"	36 yds	each
77708-18	Kapton® Low-Static Tape, 2"	36 yds	each

Scotch 811 Removable Magic Tape

This transparent tape can be removed as easily as it goes on. Ideal for taping before photocopying, leaving notes and memos, taping transparencies onto frames, etc., 3" core.

77200	Removable Magic Tape ½" x 72 yds	2rolls/bx
77210	Removable Magic Tape ½" x 72 yds	5bx/lot



Scotch 810 Magic Tape

The ever popular tape that is invisible when applied. Can be written on. Resists yellowing, cracking, and moisture. Ideal for mending, slicing, and many other permanent applications. 3" core.

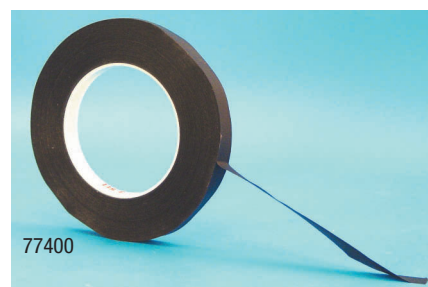
77300	810 Magic Tape, ½" x 72 yds	2 rolls/bx
77310	810 Magic Tape, ½" x 72 yds	5bx/lot
77301	810 Magic Tape ¾" x 72yds	each



Scotch 235 Photographic Tape

Black, crepe paper, pressure-sensitive tape that is designed for use in commercial as well as private photography. It can be used for making negatives, positives, and transparencies. Conformable, opaque, and it has low light reflectance. 3" core.

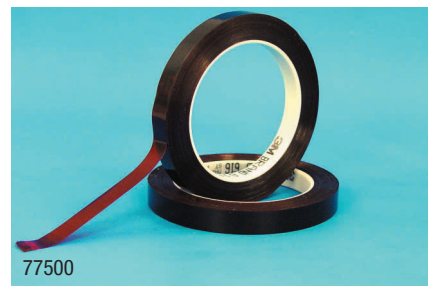
77400	235-Photographic Tape, ½"x60 yds	each
77410	235-Photographic Tape, 1"x60 yds	each



Scotch 616 Lithographer's Tape

This ruby-red transparent tape is for use in opaquing, stripping, and edging on film materials. 3" core.

77500	616-Lithographer Tape, ½"x72 yds	each
77510	616-Lithographer Tape, ½"x72 yd	5 roll/lot



Scotch 850 Color Tape

Good for making glass knife boats as well as for hanging, protecting and stripping. 3" core.

77700	Silver Tape ¾" x 72 yds	each
77710	Gold Tape ¾" x 72 yds	each
77720	Black Tape ¾" x 72 yds	each
77701	Silver Color Tape ½" x 72yds	each



Scotch Double Sided Tape:

1) Without backing paper: Scotch 665

This is a non-conductive transparent tape with adhesive on both sides. There is no liner to remove and it is long lasting for permanent applications. 3" (77mm) core, ¼"(6.35mm)Wx 72yds (32.9m)L. Comes 2 rolls inside a protective box.

77100	3M® 665, Double Sided, ¼" W x 36yds (6.4mm x 32.9m)	each
77110	3M® 665, Double Sided, ¼" W x 36yds (6.4mm x 32.9m)	5/pk
77101	3M® 665, Double Sided, ¾" W x 72yds (9.5mm x 65.8m)	each
77102	3M® 665, Double Sided, ¾" W x 36yds (19mm x 32.9m)	each



2) With paper liner: Scotch 666

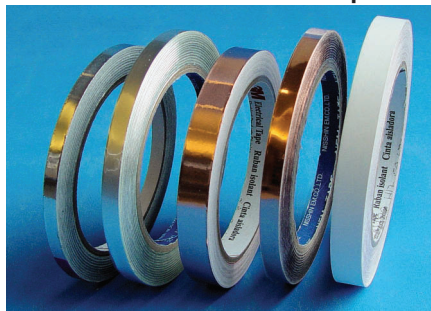
This is a non-conductive transparent tape with adhesive on both sides and white paper as a liner, which is slit in the center to facilitate its removal. This produces good adhesion and cleanliness. Comes 3 rolls inside a protective box, 3" core, ¼" (6.35mm) W x 36 yds (32.9m) L.

77115	Scotch 666 Double Sided Tape	each
77116	Scotch 666 Double Sided Tape	5/box
77117	Scotch 666 Double Sided, ¾" x 36yds	each
77118	Scotch 666 Double Sided, ¾" x 36yds	each
77119	Scotch 666 Double Sided, 1" x 36yds	each

TAPES AND DISPENSERS

Conductive Adhesive Tapes

1) Scotch Conductive Tapes:



We offer two types of foil: Aluminum foil tape (Scotch 1170) and copper foil tape (Scotch 1181) with conductive adhesive. 3" core, 1/4" (6.35mm) width x 54 ft (16.5m) long

Technical Data	Copper	Aluminum
Foil Thickness, mils	1.4	2
Total Thickness, mils (mm)	3(.076)	4(.102)
Adhesion oz/in (N/10mm)	35(3.81)	35(3.81)
Electrical Resistance		
Through Adhesive ohm/in(ohm/cm)	.005(.032)	.01(.07)
Continuous Long Term °C	155°	155°
Functional Days-Weeks °C	175°	175°

- 77800** Aluminum Tape, Single Sided 1/2" x 18yds 1 roll
- 77799** Aluminum Tape, Single Sided 1/2" x 18yds 1 roll
- 77798** Aluminum Tape, Single Sided 1" x 18yds 1 roll
- 77801** Copper Tape, Single Sided 1/2" x 18yds 1 roll
- 77802** Copper Tape, Single Sided 1/2" x 18yds 1 roll

Double Sided Copper Conductive Tape

With the same technical properties of our 77802 shown above this conductive tape is 12.7mm(W)x16.4m(L).

- 77802-22** Copper Conductive Tape, Double Sided each

2) SEM Conductive Tapes:



Technical Data	Cu Contained Nickel Tape	Al Contained Nickel Tape
	Pressed thin Cu	Pressed thin Al
PAD		
Overall Thickness	0.075mm	0.09mm
PAD	0.035mm	0.05mm
Adhesive	0.040mm	0.04mm
Conductive resistivity	0.004ohm/sq. Inch	0.008ohm/sq. Inch
Adhesive Power/25mm width	920 gf	840 gf
Capacity after 60 min	0.1mm	0.1mm

We now offer a new line of conductive tapes, that are electrically conductive and offer a clean background. They were developed especially for SEM.

- 77810** Copper/Nickel Tape each
- 77811** Copper/Nickel Tape 5 Rolls/pk
- 77813** Aluminum/Nickel Tape each
- 77814** Aluminum/Nickel Tape 5 Rolls/pk

3) Double Sided Carbon Tape

With carbon double-sided tape, small particle sizes, such as 15-20 microns, can be mounted on the adhesive and produce good background structure. Our Double sided Carbon tape is also available in five widths to accommodate varying specimen mount surface sizes and applications.

Double sided Carbon Tape	
PAD	Isolate unwoven cloth
Overall Thickness	0.16mm
PAD	0.07mm
Adhesive	0.045mmx2
Conductive resistivity	50ohm/sq. Inch
Adhesive Power/25mm width	1,000 gf
Capacity after 60 min	0.2mm

- 77816** Double Sided Adhesive Carbon Tape 8mm(W) x 20m(L) (3/8" x 65) each
- 77817** Double Sided Adhesive Carbon Tape 8mm(W) x 20m(L) (3/8" x 65) 5 Rolls/pk
- 77817-05** Double Sided Carbon Tape, 5mm(W)x20m(L) each
- 77817-12** Double Sided Carbon Tape, 12mm(W)x20m(L) each
- 77817-20** Double Sided Carbon Tape, 20mm(W)x20m(L) each
- 77817-50** Double Sided Carbon Tape, 50mm(W)x20m(L) each

Same as above however with Aluminum base as opposed to the unwoven base above. Offers a smoother surface

- 77817-05-AI** Double Sided Carbon Tape, 5mm(W)x20m(L) each
- 77817-08-AI** Double Sided Carbon Tape, 8mm(W)x20m(L) each
- 77817-12-AI** Double Sided Carbon Tape, 12mm(W)x20m(L) each
- 77817-20-AI** Double Sided Carbon Tape, 20mm(W)x20m(L) each
- 77817-50-AL** Double Sided Carbon Tape, 50mm(W)x20m(L) each

3a) Carbon Conductive Tape, Double Coated

EMS introduces this unique double sided carbon tape which is 260 microns in thickness. The base which is Polycarbonate and 200 microns thick has on both of its sides 30 microns of conductive glue giving it a total thickness of 260 microns. The tape has one transparent liner on one side and a white thicker one on the reverse which protects the tape in shipping.

SPECIFICATIONS

Core Diameter	3" (76mm)
Adhesive	Carbon Filled Acrylic Glue
Remover	Ethyl acetate, ethanol, isopropanol and or alcohol
Temperature	60°C(140°F)-Maximum
Impurities	Cu, Si, Sb, S, Na, P, Fe and Mg*

* These are considered to be small impurities but they may be present

- 77819-12** Double sided Carbon Conductive Tape, 12mm (W) x 5m (L) each
- 77819-25** Double Sides Carbon Conductive Tape, 25mm (W) x 5m (L) each
- 77819-65** Carbon Conductive Tape in sheet form, 65mm (W) x 300mm (L) each

4) Double Sided Conductive Cohesive Sheets



Features:

- Minimum impurities - Maximum conductivity.
- Produces minimum gas under vacuum conditions.
- Easy handling.

These conductive cohesive sheets offer good adhesion to the specimen and yield good conductivity and background structures, even with particles as small as 15 microns.

Sheet size: 5cm(W)x12cm(L)

Technical Data	Thickness	Adhesive Power	Conductive Resistivity
Silver Sheet	0.13mm	880 gf/25mm	0.00ohm/5mm ²
Carbon Sheet	0.16mm	1,100 gf/25mm	4,000ohm/5mm ²
77820	Silver Cohesive Sheet		5/pk
77822	Carbon Cohesive Sheet		10/pk
77822-01	Carbon Cohesive Sheet (Technical Grade)		10/pk

XYZ-Axis Electrically Conductive, 3M™ Double Sided Tape 9712

3M™ XYZ-Axis Electrically Conductive Tape 9712 is an isotropically conductive pressure sensitive tape. The tape consists of a 3M adhesive loaded with conductive fibers. The result is a double-sided tape providing both good adhesion and good electrical performance with very high conductivity.



The 9712 Tape is an excellent choice when needing to bond your samples for all SEM work.

Specification:

Adhesive Type:	Filled Acrylic
Filler Type	Conductive Fibers
Release Liner	Silicone treated PolyCoated Kraft Paper
Paper Remover:	Acetone
Thickness Approximate:	Tape Only; .005" (.127mm) Release Liner; .004" (.010mm)
Temperature Range:	Short Term Exposure; 250°F (121°C) Long Term Exposure; 158°F (70°C)

XYZ-Axis Electrically Conductive, 3M™ Double Sided Tape 9713

3M™ XYZ-Axis Electrically Conductive Tape 9713 is an isotropically conductive pressure sensitive tape. 3M tape 9713 conducts electricity through the thickness (Z-axis) and in the plane of the adhesive (X, Y planes) and is ideal for EMI/RFI shield and EMI/RFI gasket attachment to metal surfaces. The tape consists of a high performance 3M adhesive loaded with conductive fibers. The result is a double-sided tape providing both good adhesion and good electrical performance. The conductive fibers in 3M tape 9713 also provide improved handling characteristics. The 9713 Tape is an excellent choice when needing to bond your samples for all SEM work

Specification:

Adhesive Type:	Filled Acrylic
Filler Type	Conductive Fibers
Release Liner	Silicone treated PolyCoated Kraft Paper
Remover:	Acetone
Thickness Approximate:	Tape Only; .0035" (.0889mm) Release Liner; .004" (.010mm)
Temperature Range:	Short Term Exposure; 250°F (121°C) Long Term Exposure; 158°F (70°C)
Outgassing (ASTM E-595):	Total Mass Loss (TML); 1.60%
Collected Volatile	
Condensed Materials (CVCM):	0.03%
Water Vapor Recovered (WVR)	0.36%

Z-Axis Electrically Conductive, 3M™ Double Sided Tape, 9703

3M™ Electrically Conductive Adhesive Transfer Tape 9703 is a pressure sensitive adhesive (PSA) transfer tape with anisotropic electrical conductivity. The PSA matrix is filled with conductive particles which allow interconnection between substrates through the adhesive thickness (the "Z-axis") but are spaced far enough apart for the product to be electrically insulating in the plane of the adhesive. The PSA tack properties and lack of any thermal curing make tape 9703 easy to use in all applications requiring a conductive tape.

Electrical Properties: Contact Resistance

Substrate Tested			
Aluminum/Aluminum	Aluminum/Stainless Steel	Copper/Aluminum	Copper/Copper
<24Ω	<21.5Ω	<16Ω	<.66Ω

Based upon four wire (Kelvin probe) resistance measurements made with crossed pieces of Foil/Type 9712 or 9713/Rigid plate construction using a 1.0" x 1.0" square piece of 3M tape Type 9712 or 9713. The rigid metal surface was prepared with a Scotch-Brite™ pad to roughen the surface and cleaned with isopropyl alcohol.

Adhesion Properties:

Substrate	Adhesion in oz./in(g/cm)			
	20 Min at 72°F (22°C)	24 Hours at 72°F (22°C)	20 Min at 158°F (70°C)	24 Hours at 72°F (22°C)
Stainless Steel	>41(457)	>42(468)	>43(479)	>53(590)
Aluminum	>35(390)	>33(367)	>36(401)	>43(479)
Copper	>47(412)	>39(434)	>43(479)	>55(613)

The tape is available in 3 sizes and it comes on a 3" Core(76mm)

Cat. #	Description	Qty
77808-63	XYZ-Axis Electrically Conductive, 3M™ Double Sided Tape, 9712, 6.35mm (W) x 32.9m (L)	each
77808-12	XYZ-Axis Electrically Conductive, 3M™ Double Sided Tape, 9712, 12.7mm (W) x 32.9m (L)	each
77808-25	XYZ-Axis Electrically Conductive, 3M™ Double Sided Tape, 9712, 25mm (W) x 32.9m (L)	each

Electrical Properties: Contact Resistance

Substrate Tested			
Aluminum/Aluminum	Aluminum/Stainless Steel	Copper/Aluminum	Copper/Copper
<2.5Ω	<2.0Ω	<1.0Ω	<0.5Ω

Based upon four wire (Kelvin probe) resistance measurements made with crossed pieces of Foil/Type 9712 or 9713/Rigid plate construction using a 1.0" x 1.0" square piece of 3M tape Type 9712 or 9713. The rigid metal surface was prepared with a Scotch-Brite™ pad to roughen the surface and cleaned with isopropyl alcohol.

Adhesion Properties:

Substrate	Adhesion in oz./in(g/cm)				
	15 min. at 72°F (22°C)	1 hr. at 72°F (22°C)	24 hr. at 72°F (22°C)	1 hr. at 158°F (70°C)	24 hr. at 158°F (70°C)
Stainless Steel	> 30 (335)	> 45 (502)	> 50 (558)	> 50 (558)	> 55 (613)
Aluminum	> 20 (223)	> 35 (390)	> 40 (446)	> 40 (446)	> 55 (613)
Copper	> 20 (223)	> 40 (446)	> 45 (502)	> 40 (446)	> 60 (669)

The tape is available in 5 sizes and it comes on a 3" Core(76mm)

Cat. #	Description	Qty
77809-12	XYZ-Axis Electrically Conductive, 3MTM Double Sided Tape, 9713, 12.7mm (W) x 32.9m (L)	each
77809-25	XYZ-Axis Electrically Conductive, 3MTM Double Sided Tape, 9713, 25mm (W) x 32.9m (L)	each
77809-100	XYZ-Axis Electrically Conductive, 3MTM Double Sided Tape, 9713, 100mm (W) x 32.9m (L)	each
77809-60	XYZ-Axis Electrically Conductive, 3MTM Double Sided Tape, 9713, 0.61m (W) x 98.6m (L)	each
77809-61	XYZ-Axis Electrically Conductive, 3MTM Double Sided Tape, 9713, 0.61m (W) x 32.9m (L)	each

Specification:

Adhesive Type:	Filled Acrylic Pressure Sensitive
Release Liner	Silicone treated PolyCoated Kraft Paper
Remover:	Acetone
Temperature Range:	Short Term Exposure; 250°F (121°C) Long Term Exposure; 158°F (70°C)
Outgassing: (ASTM E-595)	Total Mass Loss (TML); 0.7%

Cat. #	Description	Qty
77809-70	Z-Axis Electrically Conductive, 3MTM Double Sided Tape 9703, 6.35mm x 32.9m (1/4" x 36yds)	each
77809-80	Z-Axis Electrically Conductive, 3MTM Double Sided Tape 9703, 12.7mm x 32.9m (1/2" x 36yds)	each

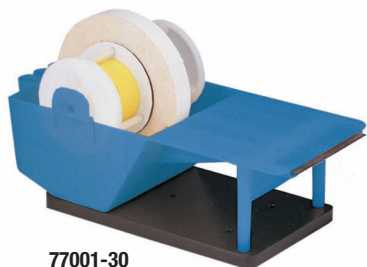
TAPES AND DISPENSERS



Write-On™ Tape Dispenser

This tape dispenser offers you a convenient writing platform, suitable for both left- and right-handed users. The epoxy-coated platform with finger holes and built-in cutting edge, make dispensing and cutting the tape a simple one-handed action. The weighted base with non-skid bottom pads assures stability. The 3" (76mm) core fits standard tape rolls up to 1" (25mm) wide. The weighted base with non-skid bottom assures stability when in use. Weight: 4 lbs (1.8kg). The dispenser accepts series 77010-tapes shown above. The tape is not included.

Cat.#	Description	Pack
77001-00	Single Roll Write-On Tape Dispenser	each

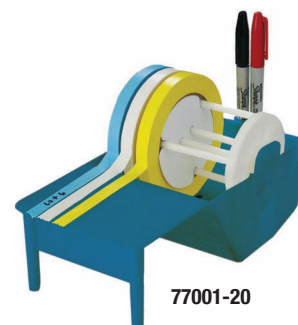


77001-30

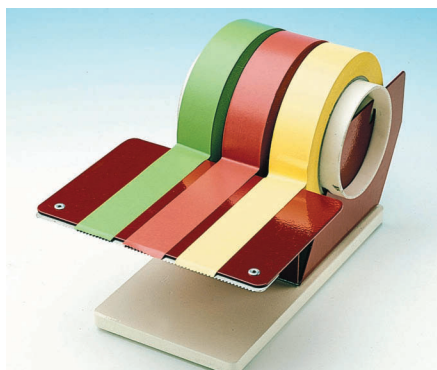
Write-On™ Label Tape Dispenser

This dispenser holds 1 & 3" core Write-On Label Tape. Measures: 302 x 143 x 160 mm H (12 x 5 5/8 x 4 3/8"H)- Two types.

Cat.#	Description	Pack
77001-20	Dual Core Write-On Tape Dispenser, Standard	each
77001-30	Dual Core Write-On Tape Dispenser, Heavy Base	each



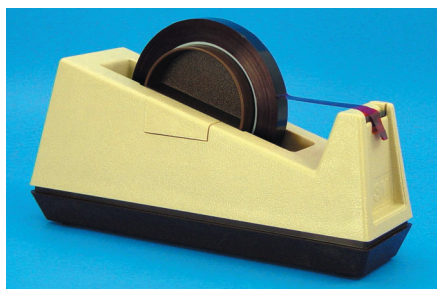
77001-20



Multi-Roll Write-On™ Tape Dispenser

This tape dispenser allows tape rolls of various widths and colors to be mounted on a single drum and reeled off individually as needed. Accepts all 3" (76mm) core roll tapes. Separators keep tape rolls apart. Writing platform is 4" x 6" (102x152mm) with a serrated cutting edge. The weighted base with non-skid bottom pads assures stability. Made from epoxy coated steel. It measures 10 1/4" x 6" x 4 3/8" (H) (260 x 150 x 110mm). Weight: 5 lbs (2.3kg). Tape not included.

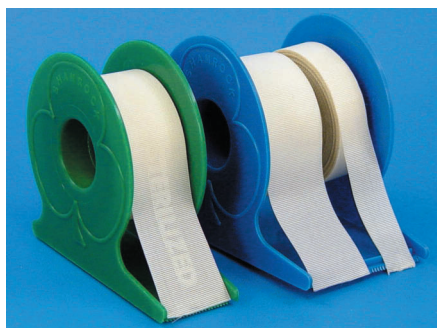
Cat.#	Description	Pack
77002-00	Multi-Roll Write-On™ Tape Dispenser	each



Scotch C-25 Heavy Duty Dispenser

Durable and economical; high impact resistant plastic dispenser. It features a permanently attached tape drum to eliminate loss. A rubber base prevents slipping. Two tone brown and beige. Holds tape up to 1" wide. 3" core.

Cat.#	Description	Pack
77000	Tape Dispenser	each



Single Roll Dispensers

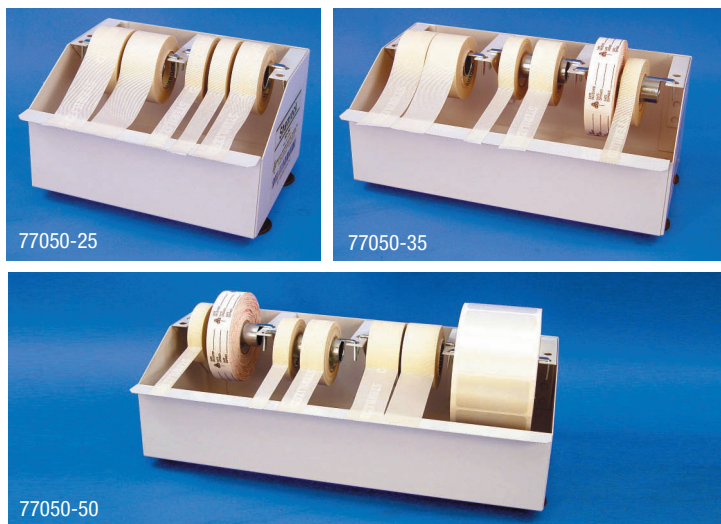
Lightweight and easy to use. Hand dispenser holds 500" tape rolls. They are made from durable plastic that can be reused many times with a safety cutting edge that protects fingers.

Cat.#	Description	Pack
77052-01	Single Roll Dispenser, Model SDH-1	each
77052-02	Single Roll Dispenser, Model SDH-2	each

TAPES AND DISPENSERS

III Multi-Roll Dispensers

We offer three different size dispensers to accommodate your 500" tape rolls (1" core) on countertop or cart; and one size dispenser for 2160" tape rolls (3" core). They provide easy dispensing while keeping all tape in one convenient location. A unique design allows easy addition or replacement of rolls without removal of every other roll on the dispenser. Made from sheet metal.



Cat.#	Description	Pack
77050-25	Tape Dispenser, Model MD-250, 6½"L x 5"W	each
77050-35	Tape Dispenser, Model MD-350, 9½"L x 5"W	each
77050-50	Tape Dispenser, Model MD-500, 12½"L x 5"W	each
77050-60	Tape Dispenser, Model MD 2160, 13¾"L x 7"W	each

III Stationary Dispensers

MD Models: Made from durable polycarbonate for visibility and easy cleaning. Cutting edge is stainless steel and suction feet help hold in place. Spindles drop in for quickly changing out rolls. For use with 60-yard tape rolls.

SD Model: Made from durable plastic. For use with 60-yard tape rolls.

Cat. No.	Model	Height	Width	Depth	# of ½" rolls
77053-01	MD-150	3" (7.62cm)	3 5/16" (8.41cm)	6 ¼" (15.86cm)	5
77053-02	SD-2	5" (12.7cm)	3" (7.62cm)	4" (10.16cm)	2
77053-03	MD-250C	3" (7.62cm)	6 5/8" (16.83cm)	6 ¼" (15.88cm)	10
77053-04	MD-350C	3" (7.62cm)	9 15/16" (25.24cm)	6 ¼" (15.88cm)	15
77053-05	MD-450	3" (7.62cm)	13 ¼" (33.66cm)	6 ¼" (15.88cm)	20
77053-06	MD-2160C	5 3/16" (13.18cm)	10" (25.4cm)	9 1/8" (23.18cm)	15



77053-02



Cat.#	Description	Pack
77053-01	Tape Dispenser, Model MD-150	each
77053-02	Tape Dispenser, Model SD-2	each
77053-03	Tape Dispenser, Model MD-250C	each

Cat.#	Description	Pack
77053-04	Tape Dispenser, Model MD-350C	each
77053-05	Tape Dispenser, Model MD-450	each
77053-06	Tape Dispenser, Model MD-2160C (not pictured)	each

CRYO LABELS AND MARKERS



III Laser Cryo-Babies® & Cryo-Tags — Labels for Cryogenic Storage†

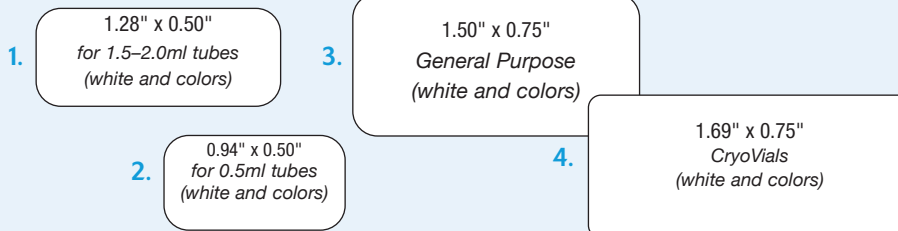
Temperature-Resistant – From -196°C to 150°C. Cryo-Babies and Cryo-Tags withstand freezer temperatures down to -196°C (liquid and vapor phase nitrogen), boiling water baths (100°C), autoclaving and moderate oven temperatures (150°C).

Tough – Chemically inert labels resist most organic solvents and caustic agents. They adhere to most plastics*, glass and metals without cracking, peeling or degrading.

Specially Designed – Label sheets are specially top-coated to readily accept laser printing. Heat-resistant, stay-flat sheets will not jam in laser printers.

Innovative – Made with a flexible, polyolefin† label material and acrylic adhesive. This unique combination expands and contracts together with temperature fluctuations resulting in a strong adhesive bond.

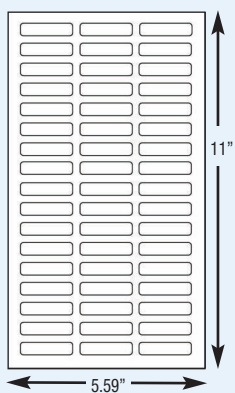
Packs are available in Individual Colors or in *Rainbow Packs (4 sheets of each color)



NEW: Mini Sheets

51 Labels Per Sheet (3 Across - 17 Down)

Now available in our most popular label size, 1.28" x 0.50", combine the reliability of Cryo-Tags and the convenience of printing less at a time. This is a perfect solution for small experiments and clinical trials.



Cat. #	Color	Labels per Sheet	Layout Across	Layout Down	Labels per Pack
77559-W	White	51	3	17	1020

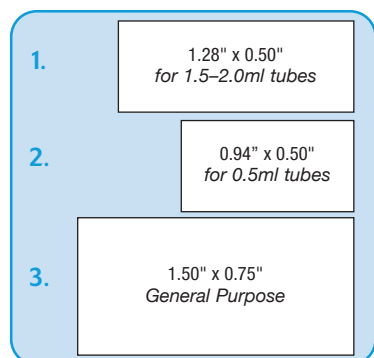
Cat. #	Color	Labels per Sheet	Layout Across	Layout Down	Labels per Pack
1. Laser Cryo-Babies 1.28" x 0.50" (33mm x 13mm) Ideal use: 1.5ml tubes					
77560-W	White	85	5	17	1,700
77560-B	Blue	85	5	17	1,700
77560-G	Green	85	5	17	1,700
77560-O	Orange	85	5	17	1,700
77560-R	Red	85	5	17	1,700
77560-Y	Yellow	85	5	17	1,700
77560-C	Clear	85	5	17	1,700
77560-05	Rainbow*	85	5	17	1,700
2. Laser Cryo-Babies 0.94" x 0.50" (24mm x 13mm) Ideal use: 0.5ml tubes					
77561-W	White	7	17	119	2,380
77561-B	Blue	7	17	119	2,380
77561-G	Green	7	17	119	2,380
77561-O	Orange	7	17	119	2,380
77561-R	Red	7	17	119	2,380
77561-Y	Yellow	7	17	119	2,380
77561-C	Clear	7	17	119	2,380
77561-05	Rainbow*	7	17	119	2,380

Cat. #	Color	Labels per Sheet	Layout Across	Layout Down	Labels per Pack
3. Laser Cryo-Tags 1.50" x 0.75" (38mm x 19mm) Ideal use: General Purpose					
77564-W	White	60	5	12	1,200
77564-B	Blue	60	5	12	1,200
77564-G	Green	60	5	12	1,200
77564-O	Orange	60	5	12	1,200
77564-R	Red	60	5	12	1,200
77564-Y	Yellow	60	5	12	1,200
77564-05	Rainbow*	60	5	12	1,200
4. Laser Cryo-Tags 1.69" x 0.75" (43mm x 19mm) Ideal use: Cryo-Vials					
77565-W	White	52	4	13	1,040
77565-B	Blue	52	4	13	1,040
77565-G	Green	52	4	13	1,040
77565-O	Orange	52	4	13	1,040
77565-R	Red	52	4	13	1,040
77565-Y	Yellow	52	4	13	1,040
77565-05	Rainbow*	52	4	13	1,040

III Cryo-Babies® & Cryo-Tags® On a Roll

Convenient – Dispensing box assists in labeling individual tubes used in small experiments.

Easy to Write on – PVC labels accept writing from most lab markers including our Solvent Resistant Pens and Teeny Writers.



1. Cryo-Babies on a Roll 1.28" x 0.50"

(33mm x 13mm) Ideal use: 1.5ml tubes

Cat. #	Color	Labels per Roll
77550-W	White	1,000
77550-B	Blue	1,000
77550-G	Green	1,000
77550-O	Orange	1,000
77550-R	Red	1,000
77550-Y	Yellow	1,000

2. Cryo-Babies on a Roll 0.94" x 0.50"

(24mm x 13mm) Ideal use: 0.5ml tubes

Cat. #	Color	Labels per Roll
77551-W	White	1,000



3. Cryo-Tags on a Roll 1.50" x 0.75"

(38mm x 19mm) Ideal use: General Purpose

Cat. #	Color	Labels per Roll
77554-W	White	1,000
77554-B	Blue	1,000
77554-G	Green	1,000
77554-O	Orange	1,000
77554-R	Red	1,000
77554-Y	Yellow	1,000

CRYO LABELS AND MARKERS

5. 1.50" x 0.25" (Microplates)

6. 2.625" x 1.00"
For boxes, tube racks
& other containers
(white and colors)

3/8"

8. 1.28" x 0.50"
for 1.5–2.0ml tubes
(white only)

7. 3.00" x 2.00"
For bottles, tube racks, boxes
and other laboratory containers
(white only)

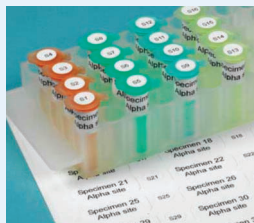
10. 1.00" x 1.00"
For Microscope
Slides
(white only)

11. 1.125" x 1.75"
For racks and boxes
(white only)

9. 2.50" x 0.50"
For 0.5ml – 2.0ml tubes
(white only)

Cat. #	Color	Labels per Sheet	Layout Across	Layout Down	Labels per Pack
5. Laser Cryo-Tags 1.50" x 0.25" (38mm x 6mm) Ideal use: Microplates					
77567-W	White	156	4	39	3,120
77567-B	Blue	156	4	39	3,120
77567-G	Green	156	4	39	3,120
77567-O	Orange	156	4	39	3,120
77567-R	Red	156	4	39	3,120
77567-Y	Yellow	156	4	39	3,120
77567-05	Rainbow*	156	4	39	3,120
6. Laser Cryo-Tags 2.625" x 1.0" (67mm x 25mm) Ideal use: Racks and Boxes					
77566-W	White	30	3	10	600
77566-B	Blue	30	3	10	600
77566-G	Green	30	3	10	600
77566-O	Orange	30	3	10	600
77566-R	Red	30	3	10	600
77566-Y	Yellow	30	3	10	600
77566-05	Rainbow*	30	3	10	600

Cat. #	Color	Labels per Sheet	Layout Across	Layout Down	Labels per Pack
7. Laser Cryo-Tags 3.0" x 2.0" (76mm x 51mm) Ideal use: Bottles & Beakers					
77568-W	White	12	4	4	240
8. Laser Cryo-Tags Tough Spot Set					
1.28" x 0.50" with 0.375" spot, (33mm x 13mm with 9.5mm spot) Ideal use: 1.5ml tubes					
77574-W	White	68	4	17	1,360



Cat. #	Color	Labels per Sheet	Layout Across	Layout Down	Labels per Pack
9. Laser Cryo-Tags 2.50" x 0.75" (64mm x 13mm) Ideal use: 0.5 to 2.0 ml tubes					
77572-W	White	60	3	20	1,200
10. Laser Cryo-Tags 1.0" x 1.0" (25mm x 25mm) Ideal use: Microscope Slides					
77571-W	White	80	8	10	1,600
11. Laser Cryo-Tags 1.125" x 1.75" (29mm x 44mm) Ideal use: General Purpose					
77569-W	White	42	7	6	840
Laser Cryo-Tags 8.5" x 11" (216mm x 279mm)					
77570-W	White	1		Blank Sheet	20

* 100% Virgin Polypropylene tubes are recommended. Avoid the use of siliconized surfaces.
† Patented

III Cryo-Clear™ Laser Labels

Clear Cryogenic Storage Labels for Use with Laser Printers

“The Choice is CLEAR” – Contents of vials beneath labels remain visible.

Temperature-resistant – From -196°C to 70°C. Cryo-Clear labels remain fully adhered down to -196°C (liquid and vapor phase nitrogen).

Durable – Chemically inert labels resist most organic solvents and caustic agents. Labels adhere to plastics*, glass and metals without cracking, peeling or degrading.

Laser Printable – Label sheets are specially top-coated to accept laser printing and other markings. Heat-resistant, stay-flat sheets will not jam in laser printers.

Innovative – Made with a flexible, vinyl label

material and permanent acrylic adhesive. This unique combination expands and contracts together as temperatures fluctuate resulting in a strong and sustained adhesive bond.



Cat. No.	Tag Size (In./mm)	Sheet layout	Labels/Sheet	Ideal Use	Qty.
77575-C	1.28" x 0.50" 33mm x 13mm	5 Across, 17 Down	85	1.5ml tubes	1,700
77576-C	0.94" x 0.50" 24mm x 13mm	7 Across, 17 Down	119	0.5ml tubes	2,380
77577-C	1.50" x 0.75" 38mm x 19mm	5 Across 12 Down	60	Cryogenic vials	1,200
77578-C	2.625" x 1.00" 66.68mm x 25.4mm	3 Across 10 Down	30	Large tubes, racks, boxes	600

* NOTE: Siliconized surfaces should be avoided. Apply to clean, dry tubes at room temperature. Tubes made of 100% virgin polypropylene are recommended.
† Patented

CRYO LABELS AND MARKERS

Direct Thermal CryoTags®

Temperature-Resistant – From -196°C to 70°C and also freezable in liquid nitrogen.

Tough – They adhere to most plastics, glass and metals without cracking, peeling or degrading. Also resistant to scuffing and smearing.

Compatible – Tubes labeled with Direct Thermal CryoTags easily slide in and out of centrifuge rotors without binding.

Specially Designed – Labels accept printing from direct thermal printers such as Dymo LabelWriters.

Barcoding – Print popular barcode formats for fast and easy sample identification.

Effortless – Printer setup and use is easy and user friendly

Economical – Limit label waste by printing only the quantity required

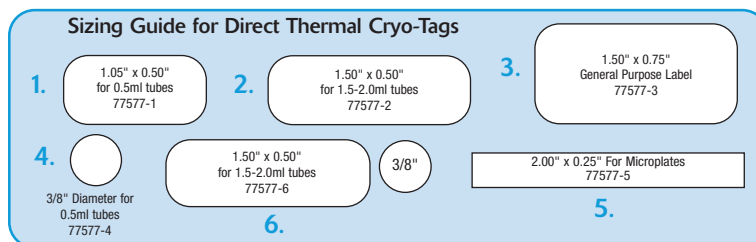
New Format – Labels are now oriented vertically and are compatible with the new LabelWriter 450

Same Great Product – Users of Direct Thermal Tough-Tags will be happy to know we've expanded the temperature range of Tough-Tags and made them Cryo-Tags

Online Support –

Email us at info@emsdiasum.com to request new definition files for the LabelWriter 450

* NOTE: Prolonged exposure to alcohol may cause material discoloration.



EMS#	Color	Dimensions	Ideal Use	Labels per pack
1. 77577-1	77593-1	White 1.05" x 0.50" / 27x13mm	0.5ml tubes	1,000
77577-7	77593-7	Blue 1.05" x 0.50" / 27x13mm	0.5ml tubes	1,000
77577-8	77593-8	Green 1.05" x 0.50" / 27x13mm	0.5ml tubes	1,000
77577-9	77593-9	Yellow 1.05" x 0.50" / 27x13mm	0.5ml tubes	1,000
77577-24	77593-24	Orange 1.05" x 0.50" / 27x13mm	0.5ml tubes	1,000
77577-25	77593-25	Red 1.05" x 0.50" / 27x13mm	0.5ml tubes	1,000
2. 77577-2	77593-2	White 1.50" x 0.50" / 38x13mm	1.5ml tubes	750
77577-10	77593-10	Blue 1.50" x 0.50" / 38x13mm	1.5ml tubes	750
77577-11	77593-11	Green 1.50" x 0.50" / 38x13mm	1.5ml tubes	750
77577-12	77593-12	Yellow 1.50" x 0.50" / 38x13mm	1.5ml tubes	750
77577-26	77593-26	Orange 1.50" x 0.50" / 38x13mm	1.5ml tubes	750
77577-27	77593-27	Red 1.50" x 0.50" / 38x13mm	1.5ml tubes	750
3. 77577-3	77593-3	White 1.50" x 0.75" / 38x19mm	2.0ml tubes	750
77577-13	77593-13	Blue 1.50" x 0.75" / 38x19mm	2.0ml tubes	750
77577-14	77593-14	Green 1.50" x 0.75" / 38x19mm	2.0ml tubes	750
77577-15	77593-15	Yellow 1.50" x 0.75" / 38x19mm	2.0ml tubes	750
77577-28	77593-28	Orange 1.50" x 0.75" / 38x19mm	2.0ml tubes	750
77577-29	77593-29	Red 1.50" x 0.75" / 38x19mm	2.0ml tubes	750
4. 77577-4	77593-4	White 3/8" diameter / 9.5mm dia	0.5ml tubes	4,000
77577-16	77593-16	Blue 3/8" diameter / 9.5mm dia	0.5ml tubes	4,000
77577-17	—	Green 3/8" diameter / 9.5mm dia	0.5ml tubes	4,000
77577-18	77593-18	Yellow 3/8" diameter / 9.5mm dia	0.5ml tubes	4,000
77577-31	77593-31	Orange 3/8" diameter / 9.5mm dia	0.5ml tubes	4,000
77577-32	77593-32	Red 3/8" diameter / 9.5mm dia	0.5ml tubes	4,000
5. 77577-5	77593-5	White 2.00" x 0.25" / 51x6mm	Microplates	1,000
6. 77577-6	77593-6	White 1.50" x 0.50" - 3/8" dia spot	1.5ml tubes	1,000
77577-19	77593-19	Blue 1.50" x 0.50" - 3/8" dia spot	1.5ml tubes	1,000
77577-20	77593-20	Green 1.50" x 0.50" - 3/8" dia spot	1.5ml tubes	1,000
77577-21	77593-21	Yellow 1.50" x 0.50" - 3/8" dia spot	1.5ml tubes	1,000
77577-38	77593-38	Orange 1.50" x 0.50" - 3/8" dia spot	1.5ml tubes	1,000
77577-39	77593-39	Red 1.50" x 0.50" - 3/8" dia spot	1.5ml tubes	1,000

NEW SIZES

Direct Thermal Cryo-Tags®

Our Direct Thermal labels are designed to work with U.S. Model Dymo printers.

Available colors: White (W), Blue (B), Green (G), Orange (O), Red (R), Yellow (Y).



77577-40 and 77577-41

77577-42 and 77577-43



EMS#	Color	Dimensions	Qty.
77577-40	White	2.00" x 0.75"	500/roll
77577-40-B	Blue	2.00" x 0.75"	500/roll
77577-40-G	Green	2.00" x 0.75"	500/roll
77577-40-O	Orange	2.00" x 0.75"	500/roll
77577-40-R	Red	2.00" x 0.75"	500/roll
77577-40-Y	Yellow	2.00" x 0.75"	500/roll
77577-41	White	1.69" x 0.75"	500/roll
77577-41-B	Blue	1.69" x 0.75"	500/roll
77577-41-G	Green	1.69" x 0.75"	500/roll
77577-41-O	Orange	1.69" x 0.75"	500/roll
77577-41-R	Red	1.69" x 0.75"	500/roll
77577-41-Y	Yellow	1.69" x 0.75"	500/roll
77577-42	White	0.94" x 0.50" with 3/8" spot	roll
77577-42-B	Blue	0.94" x 0.50" with 3/8" spot	roll
77577-42-G	Green	0.94" x 0.50" with 3/8" spot	roll
77577-42-O	Orange	0.94" x 0.50" with 3/8" spot	roll
77577-42-R	Red	0.94" x 0.50" with 3/8" spot	roll
77577-42-Y	Yellow	0.94" x 0.50" with 3/8" spot	roll
77577-43	White	1.28" x 0.50" with 3/8" spot	roll
77577-43-B	Blue	1.28" x 0.50" with 3/8" spot	roll
77577-43-G	Green	1.28" x 0.50" with 3/8" spot	roll
77577-43-O	Orange	1.28" x 0.50" with 3/8" spot	roll
77577-43-R	Red	1.28" x 0.50" with 3/8" spot	roll
77577-43-Y	Yellow	1.28" x 0.50" with 3/8" spot	roll

CRYO LABELS AND MARKERS

Thermal Transfer Cryo-Tags®

Pre-cut, Peel-Off Labels Designed for Use in Thermal Transfer Printers

Thermal Transfer Tough-Tags and Cryo-Tags are a reliable and convenient way to identify samples with text or a barcode on microtubes, microplates, bottles and other laboratory containers.

- Unique solvent-resistant, acrylic-based adhesive provides excellent cold temperature performance
- Print crisp, clear, professional quality labels
- Resists degradation from scuffing, chemicals, moisture and wide temperature fluctuations
- Specially coated for use with a resin ribbon that provides the best performance under extreme conditions
- Print as little as one label at a time, eliminating label waste and saving time and money



SIZING GUIDE: Thermal Transfer Labels for Storage in Temperatures From -196°C to 80°C

0.81 x 0.28" for 0.2ml PCR tubes	1.
0.94" x 0.50" For 0.5ml tubes	2.
1.28" x 0.50" for 1.5–2.0ml tubes	3.
1.05 x 0.50" for .5ml tubes	4.
1.375" x 0.625" for 1.5–2.0ml tubes	5.
1.50" x 0.5" for 1.5–2.0ml tubes	6.
1.50" x 0.75" General Purpose Label	7.
2.00" x 0.25" for Microplates	8.

Cryo-Tags on a 1" I.D. Core with 2,000 labels per roll

Cat. #	Tag Size	Ideal Use	Labels/Roll
1. 77592-65	0.81 x 0.28" (20.6 x 7mm)	0.2ml PCR tubes	2000
2. 77592-70	0.94 x 0.50" (24 x 13mm)	0.5 ml tubes	2000
3. 77592-75	1.28 x 0.50" (32 x 13mm)	1.5 ml-2.0 ml tubes	2000
4. 77592-2	1.05 x 0.50" (27 x 13mm)	0.5 ml tubes	2000
5. 77592-80	1.375 x 0.625" (35 x 16mm)	1.5 ml-2.0 ml tubes	2000
6. 77592-3	1.50 x 0.50" (38 x 13mm)	1.5 ml-2.0 ml tubes	2000
7. 77592-4	1.50 x 0.75" (38 x 19mm)	General Purpose	2000
8. 77592-5	2.00 x 0.25" (51 x 6mm)	Microplates	2000

Cryo-Tags on a 3" I.D. Core with 4,000 labels per roll

Cat. #	Tag Size	Ideal Use	Labels/Roll
1. 77592-81	0.81 x 0.28" (20.6 x 7mm)	0.2ml PCR tubes	4000
2. 77592-82	0.94 x 0.50" (24 x 13mm)	0.5 ml tubes	4000
3. 77592-83	1.28 x 0.50" (32 x 13mm)	1.5 ml-2.0 ml tubes	4000
4. 77592-84	1.05 x 0.50" (27 x 13mm)	0.5 ml tubes	4000
5. 77592-85	1.375 x 0.625" (35 x 16mm)	1.5 ml-2.0 ml tubes	4000
6. 77592-86	1.50 x 0.50" (38 x 13mm)	1.5 ml-2.0 ml tubes	4000
7. 77592-87	1.50 x 0.75" (38 x 19mm)	General Purpose	4000
8. 77592-88	2.00 x 0.25" (51 x 6mm)	Microplates	4000

Thermal Transfer Accessories

Cat. #	Description	Qty.
77592-55	Resin Ribbon 2.50" x 244' for TLP 2844	each

Thermal Transfer Cryo-Tags® for Automation

Cryo Barcode Labels for Metal Racks

Specially Formatted – Created in collaboration with automation professionals and are designed to integrate seamlessly into most automated setups

Temperature-Resistant – From -196°C to 80°C; liquid and vapor phase nitrogen

Non-Binding – Unique dimensions prevent label overlap on small-radius tubes, which can cause tubes to bind and jam

Field Tested – Utilizes Thermal Transfer Cryo-Tag® material which has been proven effective for long term storage in laboratories all over the world

Essential – Bringing the reliable durability of Cryo-Tags® to the high-throughput sample processing environment

All rolls are white on a 3" I.D. Core



Cat #	Tag Size in	Tag Size mm	Ideal Use	Labels/Roll
77579-2	0.50 x 1.28"	13 x 33mm	1.5ml tubes	4,150
77579-3	0.35 x 0.94"	9 x 24mm	Matrix/0.5ml tubes	5,500
77579-4	0.50 x 0.94"	13 x 24mm	Matrix/0.5ml tubes	5,500
77579-5	0.59 x 0.94"	15 x 24mm	Matrix/0.5ml tubes	5,500
77579-6	0.50 x 1.00"	13 x 25.4mm	0.5 ml tubes	4,000
77579-7*	2.36 x 0.236"	60 x 6mm	Microplates	4,000

* 77579-7 Labels come on a clear poly liner

Thermal Transfer Printer

Cat #	Description	Qty.
77592-55	Resin Ribbon 2.50" x 244' for TLP 2844	each
77592-54	Zebra GK420T Thermal Transfer Printer	each

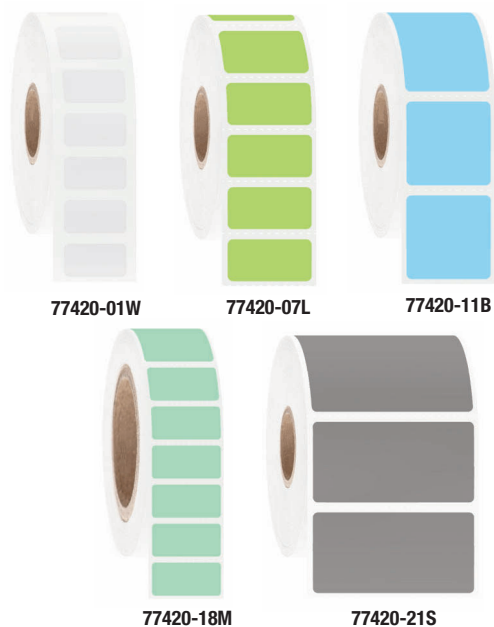
CRYO LABELS AND MARKERS



These cryogenic-compatible labels feature an extra-permanent adhesive for secure biopreservation of samples. They were designed for long-term biopreservation under cryogenic laboratory conditions, including helium, liquid and vapor phase liquid nitrogen, freezers, and dry ice transportation. They are ideal for identifying cryo boxes, vials, tubes, plastic bags, plates, etc.

FEATURES

- Waterproof plastic
- Resistant to alcohol
- Resistant to multiple freeze-thaw cycles
- Extra-permanent adhesive
- Temperature range from -196°C to +110°C
- Rounded Corners
- Will stick to wet surfaces
- Compatible with most thermal-transfer printers
- No cure time
- Can be submerged in liquid nitrogen immediately



TEMPERATURE RANGE

Dry Ice	-79°C
Freezers	-20°C, -40°C, -80°C, -120°C
Liquid Helium	-269°C
Liquid Phase	-196°C
Liquid Nitrogen	
Vapor Phase	-140°C to -180°C
Liquid Nitrogen	

NitroTAG™ Thermal Transfer Labels

Cryo Barcode Labels for Liquid Nitrogen Storage

Rectangular Labels

Cat. #	Color	Core	Label Size	Labels Across	Perf. Labels/Roll
77420-01W	White	1"	0.75 x 0.4" (19.1 x 10.2 mm)	1 rectangle	No 2,000
77420-02W	White	3"	0.75 x 0.4" (19.1 x 10.2 mm)	1 rectangle	No 6,000
77420-03W	White	1"	0.875 x 0.438" (22.2 x 11.1 mm)	1 rectangle	Yes 2,000
77420-04W	White	3"	0.875 x 0.438" (22.2 x 11.1 mm)	1 rectangle	Yes 6,000
77420-05W	White	1"	1 x 0.375" (25.4 x 9.5 mm)	1 rectangle	Yes 3,000
77420-06W	White	3"	1 x 0.375" (25.4 x 9.5 mm)	1 rectangle	Yes 6,000
77420-07W	White	1"	1 x 0.5" (25.4 x 12.7 mm)	1 rectangle	Yes 1,000
77420-07L	Lime	1"	1 x 0.5" (25.4 x 12.7 mm)	1 rectangle	Yes 1,000
77420-07P	Pink	1"	1 x 0.5" (25.4 x 12.7 mm)	1 rectangle	Yes 1,000
77420-08W	White	3"	1 x 0.5" (25.4 x 12.7 mm)	1 rectangle	Yes 5,000
77420-08L	Lime	3"	1 x 0.5" (25.4 x 12.7 mm)	1 rectangle	Yes 5,000
77420-08P	Pink	3"	1 x 0.5" (25.4 x 12.7 mm)	1 rectangle	Yes 5,000
77420-09W	White	1"	1 x 0.75" (25.4 x 19.1mm)	1 rectangle	Yes 1,000
77420-10W	White	3"	1 x 0.75" (25.4 x 19.1mm)	1 rectangle	Yes 1,000
77420-11W	White	1"	1 x 1" (25.4 x 25.4 mm)	1 rectangle	Yes 1,000
77420-11BL	Blue	1"	1 x 1" (25.4 x 25.4 mm)	1 rectangle	Yes 1,000
77420-11G	Green	1"	1 x 1" (25.4 x 25.4 mm)	1 rectangle	Yes 1,000
77420-11P	Pink	1"	1 x 1" (25.4 x 25.4 mm)	1 rectangle	Yes 1,000
77420-11R	Red	1"	1 x 1" (25.4 x 25.4 mm)	1 rectangle	Yes 1,000
77420-11Y	Yellow	1"	1 x 1" (25.4 x 25.4 mm)	1 rectangle	Yes 1,000
77420-12W	White	3"	1 x 1" (25.4 x 25.4 mm)	1 rectangle	Yes 3,000
77420-12BL	Blue	3"	1 x 1" (25.4 x 25.4 mm)	1 rectangle	Yes 3,000
77420-12G	Green	3"	1 x 1" (25.4 x 25.4 mm)	1 rectangle	Yes 3,000
77420-12P	Pink	3"	1 x 1" (25.4 x 25.4 mm)	1 rectangle	Yes 3,000
77420-12R	Red	3"	1 x 1" (25.4 x 25.4 mm)	1 rectangle	Yes 3,000
77420-12Y	Yellow	3"	1 x 1" (25.4 x 25.4 mm)	1 rectangle	Yes 3,000
77420-13W	White	1"	1.25 x 0.25" (31.8 x 6.4mm)	1 rectangle	Yes 4,000
77420-14W	White	3"	1.25 x 0.25" (31.8 x 6.4mm)	1 rectangle	Yes 8,000
77420-15W	White	1"	1.25 x 0.5" (31.8 x 12.7mm)	1 rectangle	Yes 2,000
77420-16W	White	3"	1.25 x 0.5" (31.8 x 12.7mm)	1 rectangle	Yes 2,000
77420-17W	White	1"	1.25 x 0.875" (31.8 x 22.2mm)	1 rectangle	Yes 1,000
77420-17G	Green	1"	1.25 x 0.875" (31.8 x 22.2mm)	1 rectangle	Yes 1,000
77420-17M	Mint	1"	1.25 x 0.875" (31.8 x 22.2mm)	1 rectangle	Yes 1,000
77420-17O	Orange	1"	1.25 x 0.875" (31.8 x 22.2mm)	1 rectangle	Yes 1,000
77420-17R	Red	1"	1.25 x 0.875" (31.8 x 22.2mm)	1 rectangle	Yes 1,000
77420-17Y	Yellow	1"	1.25 x 0.875" (31.8 x 22.2mm)	1 rectangle	Yes 1,000
77420-18W	White	3"	1.25 x 0.875" (31.8 x 22.2mm)	1 rectangle	Yes 1,000
77420-18G	Green	3"	1.25 x 0.875" (31.8 x 22.2mm)	1 rectangle	Yes 1,000
77420-18M	Mint	3"	1.25 x 0.875" (31.8 x 22.2mm)	1 rectangle	Yes 1,000
77420-18O	Orange	3"	1.25 x 0.875" (31.8 x 22.2mm)	1 rectangle	Yes 1,000
77420-18R	Red	3"	1.25 x 0.875" (31.8 x 22.2mm)	1 rectangle	Yes 1,000
77420-18Y	Yellow	3"	1.25 x 0.875" (31.8 x 22.2mm)	1 rectangle	Yes 1,000
77420-19W	White	1"	1.75 x 1" (44.5 x 25.4mm)	1 rectangle	Yes 2,000
77420-20W	White	3"	1.75 x 1" (44.5 x 25.4mm)	1 rectangle	Yes 2,000
77420-21W	White	1"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-21BK	Black	1"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-21BL	Blue	1"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-21BR	Brown	1"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-21G	Green	1"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-21LA	Lavender	1"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-21O	Orange	1"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-21P	Pink	1"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-21R	Red	1"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-21S	Silver	1"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-21Y	Yellow	1"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-22W	White	3"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-22BK	Black	3"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-22BL	Blue	3"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-22BR	Brown	3"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-22G	Green	3"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-22LA	Lavender	3"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-22O	Orange	3"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-22P	Pink	3"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-22R	Red	3"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-22S	Silver	3"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000
77420-22Y	Yellow	3"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes 2,000

III NitroTAG™ Thermal Transfer Labels (continued)



77420-24W

77420-27LA

77420-31W

77420-41P

77420-38Y

Rectangle + Circle Labels

Cat. #	Color	Core	Label Size	Labels Across	Perf.	Labels/Roll
77420-23W	White	1"	0.94 x 0.5" + 0.437" (23.9 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes + Notch	2,000
77420-23BL	Blue	1"	0.94 x 0.5" + 0.437" (23.9 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes + Notch	2,000
77420-23G	Green	1"	0.94 x 0.5" + 0.437" (23.9 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes + Notch	2,000
77420-23LA	Lavender	1"	0.94 x 0.5" + 0.437" (23.9 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes + Notch	2,000
77420-23O	Orange	1"	0.94 x 0.5" + 0.437" (23.9 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes + Notch	2,000
77420-23Y	Yellow	1"	0.94 x 0.5" + 0.437" (23.9 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes + Notch	2,000
77420-24W	White	3"	0.94 x 0.5" + 0.437" (23.9 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes + Notch	6,000
77420-24BL	Blue	3"	0.94 x 0.5" + 0.437" (23.9 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes + Notch	6,000
77420-24G	Green	3"	0.94 x 0.5" + 0.437" (23.9 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes + Notch	6,000
77420-24LA	Lavender	3"	0.94 x 0.5" + 0.437" (23.9 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes + Notch	6,000
77420-24O	Orange	3"	0.94 x 0.5" + 0.437" (23.9 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes + Notch	6,000
77420-24Y	Yellow	3"	0.94 x 0.5" + 0.437" (23.9 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes + Notch	6,000
77420-25W	White	1"	1 x 0.375" + 0.375" (25.4 x 9.5mm + 9.5mm)	1 rectangle + 1 circle	Yes	2,000
77420-26W	White	3"	1 x 0.375" + 0.375" (25.4 x 9.5mm + .5mm)	1 rectangle + 1 circle	Yes	4,000
77420-27W	White	1"	1 x 0.5 + 0.375" (25.4 x 12.7 + .5mm)	1 rectangle + 1 circle	Yes	2,000
77420-27LA	Lavender	1"	1 x 0.5 + 0.375" (25.4 x 12.7 + .5mm)	1 rectangle + 1 circle	Yes	2,000
77420-27O	Orange	1"	1 x 0.5 + 0.375" (25.4 x 12.7 + .5mm)	1 rectangle + 1 circle	Yes	2,000
77420-28W	White	3"	1 x 0.5" + 0.375" (25.4 x 12.7mm + 9.5mm)	1 rectangle + 1 circle	Yes	4,000
77420-2LA	Lavender	3"	1 x 0.5" + 0.375" (25.4 x 12.7mm + 9.5mm)	1 rectangle + 1 circle	Yes	4,000
77420-28O	Orange	3"	1 x 0.5" + 0.375" (25.4 x 12.7mm + 9.5mm)	1 rectangle + 1 circle	Yes	4,000
77420-29W	White	1"	1.125 x 0.75" + 0.437" (28.6 x 19.1mm + 11.1mm)	1 rectangle + 1 circle	Yes	2,000
77420-30W	White	3"	1.125 x 0.75" + 0.437" (28.6 x 19.1mm + 11.1mm)	1 rectangle + 1 circle	Yes	4,000
77420-31W	White	1"	1.25 x 0.5" + 0.437" (31.8 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes	2,000
77420-32W	White	3"	1.25 x 0.5" + 0.437" (31.8 x 12.7mm + 11.1mm)	1 rectangle + 1 circle	Yes	4,000
77420-33W	White	1"	1.25 x 0.625" + 0.375" (31.8 x 16mm + 9.5mm)	1 rectangle + 1 circle	Yes	2,000
77420-34W	White	3"	1.25 x 0.625" + 0.375" (31.8 x 16mm + 9.5mm)	1 rectangle + 1 circle	Yes	4,000

Circle Labels

Cat. #	Color	Core	Label Size	Labels Across	Perf.	Labels/Roll	Cat. #	Color	Core	Label Size	Labels Across	Perf.	Labels/Roll
77420-35W	White	1"	0.25" (6.4mm)	2 circles	Yes + Notch	2,000	77420-39W	White	1"	0.438" (11mm)	2 circles	Yes + Notch	2,000
77420-35BL	Blue	1"	0.25" (6.4mm)	2 circles	Yes + Notch	2,000	77420-40W	White	3"	0.438" (11mm)	2 circles	Yes + Notch	4,000
77420-35G	Green	1"	0.25" (6.4mm)	2 circles	Yes + Notch	2,000	77420-41W	White	1"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-35L	Lime	1"	0.25" (6.4mm)	2 circles	Yes + Notch	2,000	77420-41BL	Blue	1"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-35P	Pink	1"	0.25" (6.4mm)	2 circles	Yes + Notch	2,000	77420-41G	Green	1"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-35Y	Yellow	1"	0.25" (6.4mm)	2 circles	Yes + Notch	2,000	77420-41LA	Lavender	1"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-36W	White	3"	0.25" (6.4mm)	2 circles	Yes + Notch	2,000	77420-41O	Orange	1"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-36BL	Blue	3"	0.25" (6.4mm)	2 circles	Yes + Notch	2,000	77420-41P	Pink	1"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-36G	Green	3"	0.25" (6.4mm)	2 circles	Yes + Notch	2,000	77420-41R	Red	1"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-36L	Lime	3"	0.25" (6.4mm)	2 circles	Yes + Notch	2,000	77420-41Y	Yellow	1"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-36P	Pink	3"	0.25" (6.4mm)	2 circles	Yes + Notch	2,000	77420-42W	White	3"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-36Y	Yellow	3"	0.25" (6.4mm)	2 circles	Yes + Notch	2,000	77420-42B	Blue	3"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-37W	White	1"	0.354" (9mm)	2 circles	Yes + Notch	4,000	77420-42G	Green	3"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-37LA	Lavender	1"	0.354" (9mm)	2 circles	Yes + Notch	4,000	77420-42LA	Lavender	3"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-37O	Orange	1"	0.354" (9mm)	2 circles	Yes + Notch	4,000	77420-42O	Orange	3"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-37Y	Yellow	1"	0.354" (9mm)	2 circles	Yes + Notch	4,000	77420-42P	Pink	3"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-38W	White	3"	0.354" (9mm)	2 circles	Yes + Notch	4,000	77420-42R	Red	3"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-38LA	Lavender	3"	0.354" (9mm)	2 circles	Yes + Notch	4,000	77420-42Y	Yellow	3"	0.5" (12.7mm)	2 circles	Yes + Notch	2,000
77420-38O	Orange	3"	0.354" (9mm)	2 circles	Yes + Notch	4,000							
77420-38Y	Yellow	3"	0.354" (9mm)	2 circles	Yes + Notch	4,000							

CRYO LABELS AND MARKERS



These cryogenic labels have a clear overlap area and can be applied directly to frozen tubes and cryovials, even those difficult to label in deep-freeze conditions.

Frozen vials can be labeled seconds after removal from cryogenic storage and can be placed back into liquid nitrogen or a freezer for further conservation.

Designed for long-term preservation in liquid nitrogen freezers and dry ice, they can withstand temperatures up to +100°C (212°F).

Labels are compatible with most brands of thermal transfer printers. For proper adherence to the frozen surface, we recommend applying the CryoSTUCK labels with an overlap of the transparent part of at least 0.25".

Color options: W=White, CL=Clear

FEATURES

- Extra-permanent adhesive for frozen containers
- Application temperature as low as -80°C
- Temperature range from -196°C to +100°C



These labels are ideal for relabeling frozen vials when removing the existing label is not possible.

They will completely obscure the existing label and "black-out" the information underneath. The relabeled frozen vials can be stored back inside liquid nitrogen or a freezer for long-term preservation.

Labels are compatible with most brands of thermal transfer printers. For proper adherence to the frozen surface, we recommend applying the Cryo-CoverTAG labels with an overlap of the transparent part of at least 0.25".

FEATURES

- Permanent adhesive for frozen surfaces
- Temperature range from -196°C to +100°C
- Color options: W=White, BW=Black with White print area

III CryoSTUCK™ Thermal Transfer Labels

Cryogenic labels for frozen vials



Cat. #	Color	Core	Label Size	Labels Across	Perf. Labels/Roll
77422-01W	White	1"	0.875 x 2" (22.2 x 50.8mm)	1	Yes 1,000
77422-02W	White	3"	0.875 x 2" (22.2 x 50.8mm)	1	Yes 1,000
77422-03W	White	1"	1 x 0.5" (25.4 x 12.7mm)	1	Yes 1,000
77422-04W	White	3"	1 x 0.5" (25.4 x 12.7mm)	1	Yes 5,000
77422-05W	White	1"	1 x 1" (25.4 x 25.4mm)	1	Yes 2,000
77422-06W	White	3"	1 x 1" (25.4 x 25.4mm)	1	Yes 4,000
77422-07W	White	1"	1.25 x 0.875" (31.75 x 22.2mm)	1	Yes 2,000
77422-08W	White	3"	1.25 x 0.875" (31.75 x 22.2mm)	1	Yes 2,000
77422-09W	White	1"	3 x 0.55" (76.2 x 13.9mm)	1	Yes 1,000
77422-10W	White	1.5"	3 x 0.55" (76.2 x 13.9mm)	1	Yes 1,000
77422-11W	White	3"	3 x 0.55" (76.2 x 13.9mm)	1	Yes 1,000
77422-12W	White	1"	1 x 0.625" + .375" wrap (25.4 x 15.9mm + 35mm wrap)	1	Yes + Notch 1,000
77422-13W	White	3"	1 x 0.625" + 1.375" wrap (25.4 x 15.9mm + 35mm wrap)	1	Yes + Notch 3,000
77422-14W	White	1"	1.5 x 1" + 1.5" wrap (38.1 x 25.4mm + 38.1mm wrap)	1	Yes + Notch 1,000
77422-15W	White	3"	1.5 x 1" + 1.5" wrap (38.1 x 25.4mm + 38.1mm wrap)	1	Yes + Notch 2,000
77422-16W	White	1"	2.75 x 1" + 1.25" wrap (69.8 x 25.4mm + 31.7mm wrap)	1	Yes 1,000
77422-17W	White	3"	2.75 x 1" + 1.25" wrap (69.8 x 25.4mm + 31.7mm wrap)	1	Yes 1,000
77422-18W	White	1"	2.75 x 1.1875" + 1.25" wrap (69.8 x 30.1mm + 31.7mm wrap)	1	Yes 1,000
77422-19W	White	3"	2.75 x 1.1875" + 1.25" wrap (69.8 x 30.1mm + 31.7mm wrap)	1	Yes 1,000
77422-20CL	Clear	1"	1.75 x 1" (69.8 x 25.4mm)	1	Yes 2,000
77422-21CL	Clear	3"	1.75 x 1" (69.8 x 25.4mm)	1	Yes 2,000

III Cryo-CoverTAG™ Thermal Transfer Labels

Cover-up labels for frozen vials

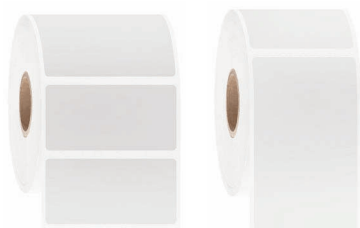


Cat. #	Color	Core	Label Size	Labels Across	Perf. Labels/Roll
77423-01W	White	1"	0.875 x 1.125 + 0.75" wrap (22.1 x 28.57 + 19mm wrap)	1	Yes 1,000
77423-02W	White	3"	0.875 x 1.125 + 0.75" wrap (22.1 x 28.57 + 19mm wrap)	1	Yes 1,000
77423-03W	White	1"	0.875 x 1.375 + 0.75" wrap (22.1 x 35 + 19mm wrap)	1	Yes + Notch 1,000
77423-04W	White	3"	0.875 x 1.375 + 0.75" wrap (22.1 x 35 + 19mm wrap)	1	Yes + Notch 1,000
77423-07W	White	1"	2 x 1 + 0.5" wrap (50.8 x 25.4 + 12.7mm wrap)	1	Yes 1,000
77423-08W	White	3"	2 x 1 + 0.5" wrap (50.8 x 25.4 + 12.7mm wrap)	1	Yes 1,000
77423-09W	White	1"	0.875 x 2" (22.2 x 50.8mm)	1	Yes 1,000
77423-10W	White	3"	0.875 x 2" (22.2 x 50.8mm)	1	Yes 1,000

Cat. #	Color	Core	Label Size	Labels Across	Perf. Labels/Roll
77423-05BW	Black with White print area	1"	1.57 x 0.75 + 0.93" wrap (39.9 x 19 + 23.6mm wrap)	1	Yes 1,000
77423-06BW	Black with White print area	3"	1.57 x 0.75 + 0.93" wrap (39.9 x 19 + 23.6mm wrap)	1	Yes 2,000

III MetalTAG™ Thermal Transfer Labels

Cryo Barcode Labels for Metal Racks



Cat. #	Color	Core	Label Size	Labels Across	Perf.	Labels/Roll
77424-01W	White	1"	1 x 1" (25.4 x 25.4mm)	1 rectangle	No	2,000
77424-02W	White	3"	1 x 1" (25.4 x 25.4mm)	1 rectangle	No	2,000
77424-03W	White	1"	1.5 x 2.5" (38.1 x 63.5 mm)	1 rectangle	Yes	1,000
77424-04W	White	3"	1.5 x 2.5" (38.1 x 63.5 mm)	1 rectangle	Yes	1,000
77424-05W	White	1"	1.75 x 0.5" (44.5 x 12.7 mm)	1 rectangle	Yes	2,000
77424-06W	White	3"	1.75 x 0.5" (44.5 x 12.7 mm)	1 rectangle	Yes	6,000
77424-07W	White	1"	1.75 x 1" (44.5 x 25.4 mm)	1 rectangle	Yes	2,000
77424-08W	White	3"	1.75 x 1" (44.5 x 25.4 mm)	1 rectangle	Yes	2,000
77424-09W	White	1"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-09BL	Blue	1"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-09G	Green	1"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-09LA	Lavender	1"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-09M	Mint	1"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-09O	Orange	1"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-09P	Pink	1"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-09R	Red	1"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-09T	Tan	1"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-09Y	Yellow	1"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-10W	White	3"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-10BL	Blue	3"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-10G	Green	3"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-109LA	Lavender	3"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-109M	Mint	3"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-10O	Orange	3"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-10P	Pink	3"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-10R	Red	3"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-10T	Tan	3"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-10Y	Yellow	3"	2 x 1" (50.8 x 25.4 mm)	1 rectangle	Yes	1,000
77424-11W	White	1"	3 x 1" (76 x 25.4 mm)	1 rectangle	Yes	1,000
77424-12W	White	3"	3 x 1" (76 x 25.4 mm)	1 rectangle	Yes	1,000
77424-13W	White	1"	3 x 2" (76 x 50.8 mm)	1 rectangle	Yes	1,000
77424-14W	White	3"	3 x 2" (76 x 50.8 mm)	1 rectangle	Yes	1,000

FEATURES

- Temperature range from -196°C to +100°C
- Color options: W=White, BL=Blue, BR=Brown, LA=Lavender, M=Mint, O=Orange, P=Pink, R=Red, T=Tan, Y=Yellow

Cryogenic thermal transfer labels for the identification of metal racks, stainless steel cryogenic racks, aluminium cassettes, X-ray film cassettes, etc.

Ideal for long-term storage and bio-preservation in liquid or vapor phase liquid nitrogen and extra-low temperature freezers.

Labels can be printed with most brands of thermal transfer printers.

III Tamper-Proof Cryogenic Labels

These cryogenic labels were designed for use on plastic bags, plates, vials, CD cases and other containers where a tamper-evident seal is required. Once applied, the labels cannot be removed without being destroyed.

They are ideal for identifying and sealing cryo vials, microtubes and other containers stored in laboratory freezers, in liquid nitrogen Dewars or on dry ice.

They can be printed with thermal-transfer printers or inscribed with permanent markers.



FEATURES

- Temperature range from -196°C to +110°C
- Color options: W=White

Cat. #	Color	Core	Label Size	Labels Across	Perf.	Labels/Roll
77428-01W	White	1"	1 x 0.5" (25.4 x 12.7mm)	1 rectangle	Yes	1,000
77428-02W	White	3"	1 x 0.5" (25.4 x 12.7mm)	1 rectangle	Yes	1,000
77428-03W	White	1"	1.625 x 0.625" (41.3 x 15.9mm)	1 rectangle	Yes	1,000
77428-04W	White	3"	1.625 x 0.625" (41.3 x 15.9mm)	1 rectangle	Yes	1,000
77428-05W	White	1"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes	1,000t
77428-06W	White	3"	2 x 1" (50.8 x 25.4mm)	1 rectangle	Yes	1,000
77428-07W	White	1"	2.5 x 1" (63.5 x 25.4mm)	1 rectangle	Yes	1,000
77428-08W	White	3"	2.5 x 1" (63.5 x 25.4mm)	1 rectangle	Yes	1000



CRYO LABELS AND MARKERS



StrawTAG™ Cryogenic Labels

Cryo labels for IVF straws

Self-laminating cryo-compatible labels for cryogenic straws used in IVF laboratories.

Designed for long-term biopreservation under cryogenic laboratory conditions, including liquid and vapor phase liquid nitrogen (-196°C / -320.8°F), -80°C (-112°F) freezers and dry ice transportation.

FEATURES

- Temperature range from -196°C to +80°C
- Color options: W=White, BL=Blue, G=Green, P=Pink, R=Red, Y=Yellow
- Labels for both 0.25ml and 0.5ml straws



Cryo Labels for 0.25ml IVF Straws

Cat. #	Color	Core	Label Size	Printable Area Size	Labels Across	Perf.	Labels/Roll
77427-01W	White	1"	1 x 1" (25.4 x 25.4mm)	1 x 0.25"	1 rectangle	Notch	1,000
77427-01BL	Blue	1"	1 x 1" (25.4 x 25.4mm)	1 x 0.25"	1 rectangle	Notch	1,000
77427-01G	Green	1"	1 x 1" (25.4 x 25.4mm)	1 x 0.25"	1 rectangle	Notch	1,000
77427-01P	Pink	1"	1 x 1" (25.4 x 25.4mm)	1 x 0.25"	1 rectangle	Notch	1,000
77427-01R	Red	1"	1 x 1" (25.4 x 25.4mm)	1 x 0.25"	1 rectangle	Notch	1,000
77427-01Y	Yellow	1"	1 x 1" (25.4 x 25.4mm)	1 x 0.25"	1 rectangle	Notch	1,000
77427-02W	White	3"	1 x 1" (25.4 x 25.4mm)	1 x 0.25"	1 rectangle	Notch	1,000
77427-02BL	Blue	3"	1 x 1" (25.4 x 25.4mm)	1 x 0.25"	1 rectangle	Notch	1,000
77427-02G	Green	3"	1 x 1" (25.4 x 25.4mm)	1 x 0.25"	1 rectangle	Notch	1,000
77427-02P	Pink	3"	1 x 1" (25.4 x 25.4mm)	1 x 0.25"	1 rectangle	Notch	1,000
77427-02R	Red	3"	1 x 1" (25.4 x 25.4mm)	1 x 0.25"	1 rectangle	Notch	1,000
77427-02Y	Yellow	3"	1 x 1" (25.4 x 25.4mm)	1 x 0.25"	1 rectangle	Notch	1,000
77427-03W	White	1"	1.375 x 0.875" (35 x 22mm)	1.375 x 0.25"	1 rectangle	Notch	1,000
77427-04W	White	3"	1.375 x 0.875" (35 x 22mm)	1.375 x 0.25"	1 rectangle	Notch	1,000
77427-05W	White	1"	2 x 1" (50.8 x 25.4mm)	2 x 0.25"	1 rectangle	Notch	1,000
77427-06W	White	3"	2 x 1" (50.8 x 25.4mm)	2 x 0.25"	1 rectangle	Notch	1,000

Cryo Labels for 0.5ml IVF Straws

Cat. #	Color	Core	Label Size	Printable Area Size	Labels Across	Perf.	Labels/Roll
77427-07W	White	1"	1 x 1" (25.4 x 25.4mm)	1 x 0.375"	1 rectangle	Notch	1,000
77427-08W	White	3"	1 x 1" (25.4 x 25.4mm)	1 x 0.375"	1 rectangle	Notch	1,000
77427-09W	White	1"	1 x 1" (25.4 x 25.4mm)	1.375 x 0.375"	1 rectangle	Notch	1,000
77427-10W	White	3"	1 x 1" (25.4 x 25.4mm)	1.375 x 0.375"	1 rectangle	Notch	1,000
77427-11W	White	1"	1 x 1" (25.4 x 25.4mm)	2 x 0.375"	1 rectangle	Notch	1,000
77427-12W	White	3"	1 x 1" (25.4 x 25.4mm)	2 x 0.375"	1 rectangle	Notch	1,000



Deep-Freeze Labels for High-Profile PCR Tube Strips

Temperature range -80°C to +110°C (-112°F to +230°F)

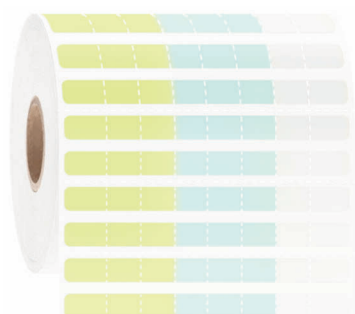
BENEFITS

- Safe for use in PCR thermocyclers
- Secure identification of high-profile 8-well PCR tube strips
- Resist a wide temperature range (-80°C/-112°F to +100°C/+212°F)

PCR-TAG™ deep-freeze permanent labels are designed for specific use with high-profile 8-well PCR tube strips. The vertical perforations along the tag allow for easy and secure individual identification of the tubes.

These labels withstand a wide temperature range, from -80°C to +100°C, safe for use in thermocyclers, and for short and long-term storage in low-temperature freezers.

Provided in roll format, the labels can be printed with all common brands of thermal-transfer barcode printers.



Cat. #	Color	Core	Label Size	Labels Across	Perf.	Labels/Roll
77421-01W	White	1"	3 x 0.25" (76.2 x 6.4mm)	8 PCR labels	Yes	2,000
77421-01M	Mint	1"	3 x 0.25" (76.2 x 6.4mm)	8 PCR labels	Yes	2,000
77421-01Y	Yellow	1"	3 x 0.25" (76.2 x 6.4mm)	8 PCR labels	Yes	2,000
77421-01C	Combo	1"	3 x 0.25" (76.2 x 6.4mm)	8 PCR labels	Yes	2,000
77421-02W	White	3"	3 x 0.25" (76.2 x 6.4mm)	8 PCR labels	Yes	2,000
77421-02M	Mint	3"	3 x 0.25" (76.2 x 6.4mm)	8 PCR labels	Yes	2,000
77421-02Y	Yellow	3"	3 x 0.25" (76.2 x 6.4mm)	8 PCR labels	Yes	2,000
77421-02C	Combo	3"	3 x 0.25" (76.2 x 6.4mm)	8 PCR labels	Yes	2,000

III Cryogenic Safety and Warning Labels

Plastic labels for deep-freeze applications

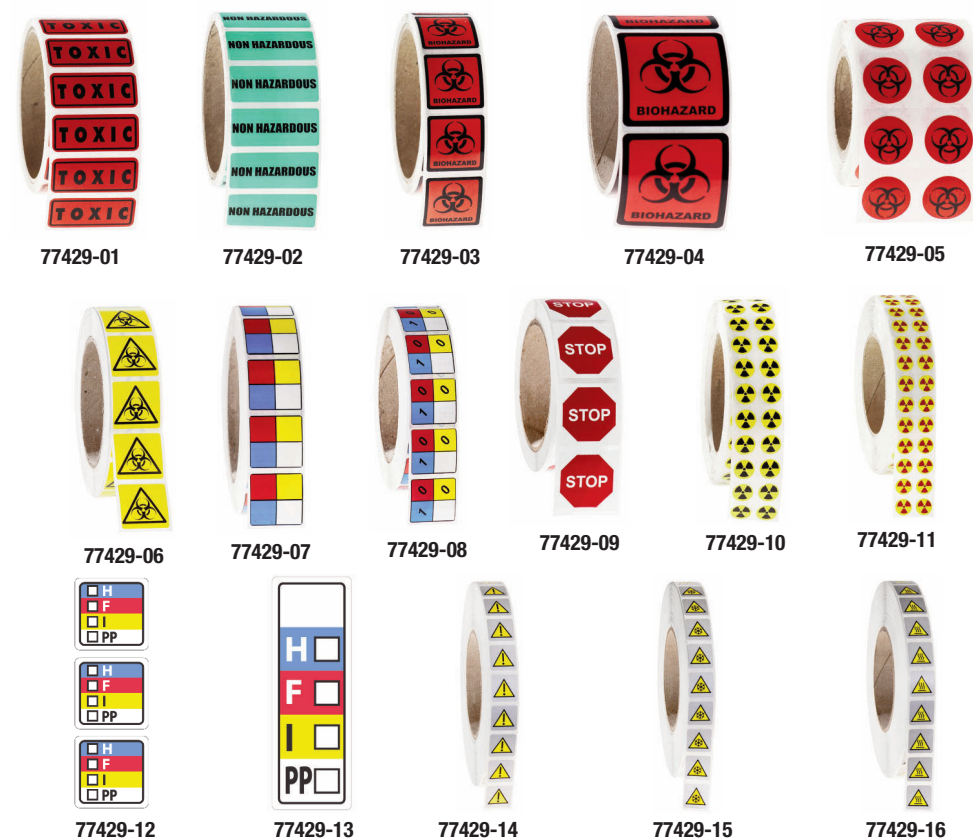
These labels will withstand multiple freeze-thaw cycles, boiling water and autoclaving, dry ice, UV rays, Gamma irradiation, most chemicals and solvents, and other harsh laboratory environments.

They are ideal for prolonged storage inside liquid nitrogen tanks, freezers and dry ice as well as for transportation of hazardous biological samples and other hazardous materials in dry ice containers, portable freezers and portable liquid nitrogen tanks.

The pictograms on the laminated labels are protected against water, alcohols, chemicals, and solvents.

FEATURES

- Water resistant
- Wear and Tear proof
- Temperature range from -196°C to +100°C



Cat. #	Label Text/Symbol	Label Size	Laminated	Perf.	Labels/Roll
77429-01	Toxic	1.75 x 0.75" (45 x 19mm)	Yes	No	250
77429-02	Non Hazardous	1.75 x 0.75" (45 x 19mm)	Yes	No	250
77429-03	BioHazard w/Symbol, Red	1.125 x 1.125" (29 x 29mm)	Yes	No	1,000
77429-04	BioHazard w/Symbol, Red	2 x 2" (50.8 x 50.8mm)	Yes	No	100
77429-05	BioHazard Symbol, Red	0.5 x 0.5" (13 x 13mm)	Yes	Yes	1,000
77429-06	BioHazard Symbol, Yellow	1.125 x 1.125" (29 x 29mm)	Yes	Yes	1,000
77429-07	NFPA, Blank	1.125 x 1.125" (29 x 29mm)	Yes	Yes	1,000
77429-08	NFPA, Printed	1.125 x 1.125" (29 x 29mm)	Yes	Yes	1,000
77429-09	Stop w/Symbol	1.5 x 1.5" (38.1 x 38.1mm)	Yes	Yes	1,000
77429-10	Radioactive, Black	0.5 x 0.5" (13 x 13mm)	Yes	Yes	1,000
77429-11	Radioactive, Red	0.5 x 0.5" (13 x 13mm)	Yes	Yes	1,000
77429-12	HMIS Warning	0.875 x 0.875" (22.2 x 22.2mm)	Yes	Yes	500
77429-13	HMIS Warning	1 x 3" (25.4 x 76.2)	Yes	Yes	500
77429-14	Warning Symbol*	0.75 x 0.75" (19 x 19mm)	No	Yes	1,000
77429-15	Low Temp Symbol*	0.75 x 0.75" (19 x 19mm)	No	Yes	1,000
77429-16	Hot Surface Symbol*	0.75 x 0.75" (19 x 19mm)	No	Yes	1,000

*Removable

RELATED PRODUCTS...

Our new generation of Cryo Pucks is here!



Organized storage and transport for Cryo-EM specimen grids under cryogenic conditions

III EMS Cryo Pucks G2

We are now offering a broad selection of kits and bundles to meet your needs.

- 12 wells per puck
- Each puck has a unique alpha-numeric code
- Magnets for strong puck retention but easy removal
- 2D Barcoding and custom puck serialization
- See-through, affixed lid retains liquid nitrogen during transfers
- Lid-lock feature provides easy and secure loading

For more information, see our Online Catalog at www.emsdiasum.com

CRYO LABELS AND MARKERS

III Cryogenic Labels

These labels are made from top quality materials, a wide range of sizes, designed specially for cryogenic use.

1. DuraStick Labels (KDS-series)

For Temperature of -40°C and Below

These labels feature a smudge resistant surface. They are available in rolls for thermal transfer printing or in 8½" x 11' sheets for laser printing. All accept handwritten notations with cryo markers.



2. CryoStick Labels (FCS-series)

For Temperatures of -80°C

Ideal for use with cryotubes, these labels are best used with thermal transfer printers or cryo marker pens. Available in a wide range of sizes on sheets or rolls, they are not recommended for laser printing.

3. LiquiStick Labels (LSC-series)

For temperatures of -195°C

Labels feature a synthetic surface that accepts crisp bar codes from thermal transfer printers or handwritten notations cryo markers. Supplied in sheets or rolls, these labels are not recommended for use with laser printers.

4. Satin Cloth Labels (SC-series)

For temperature of -60°C

These textured labels withstand dry ice, deep freezers and liquid gases. Supplied in sheets or rolls. They are easily marked with cryo markers, not for use with automated printers.

5. Wrap-Around Labels (WA-1)

For Freezers and Cryogenic Use

These unique labels are for sub-zero use, measures 1½" x 2½". They feature a 1½" x 1½" area, frosted for thermal printing or marking with cryo markers. The remainder of the label is clear. It wraps around the cryo-tube to provide a protective cover for printed information while leaving a clear space for viewing the tube contents.

Cat #	Description	Label Size	Qty.
77025-01	DuraStick- series	7/16" Dia	1,000/pk
77025-10	DuraStick- series	½" x 9/10"	1,000/pk
77025-11	DuraStick- series	½" x 1¾"	1,000/pk
77025-2A	DuraStick- series	½" x 1¼"	5000/pk
77026-01	CryoStick- Series	7/16" Dia	1,000/pk
77026-10	CryoStick- Series	½" x 9/10"	1,000/pk
77026-11	CryoStick- Series	½" x 1¾"	1,000/pk
77026-12	CryoStick- Series	½" x 1½"	1,000/pk
77026-15	CryoStick- Series	¾" x 9/10"	1,000/pk
77026-16	CryoStick- Series	¾" x 1¼"	1,000/pk
77026-17	CryoStick- Series	¾" x 1½"	1,000/pk
77027-01	LiquiStick- series	7/16" Dia	1,000/roll
77027-10	LiquiStick- series	½" x 9/10"	1,000/roll
77027-11	LiquiStick- series	½" x 1¾"	1,000/roll
77027-12	LiquiStick- series	½" x 1½"	1,000/roll
77027-15	LiquiStick- series	¾" x 9/10"	1,000/roll
77027-16	LiquiStick- series	¾" x 1¼"	1,000/roll
77027-17	LiquiStick- series	¾" x 1½"	1,000/roll
77030-01	Satin-Cloth	5/8" x 1"	1,000/pk
77030-02	Satin-Cloth	5/8" x 2"	1,000/pk
77030-03	Satin-Cloth	1" x 2"	1,000/pk
77030-04	Satin-Cloth	1" x 2¼"	1,000/pk
77030-05	Satin-Cloth	1" x 2½"	1,000/pk
77028-18	Wrap-Around (frosted)	15/16" x 2-3/8"	1,000/pk

III Cryo Labels



A specially formulated material for use at ultra-low temperatures and in cryo storage conditions, such as liquid nitrogen and liquid oxygen. They are durable and adhere well to plastic as well as cardboard cryogenic storage boxes. They will not peel or shrink. Ten sheets of labels: five pre-printed, five plain. Twenty labels/sheet. Label measures: 2.5cmx5cm.

Cat #	Description	Qty.
62046	Cryo Labels	200 labels/pk
62047	Cryo Labels	10pk/lot

III Cryo Markers

For permanently marking cloth, cardboard, and plastic. It will not fade at ultra-low temperatures. Smudge-proof. Package consists of three extra fine point pens in red, blue, and black, and one standard point pen in green.



Cat No.	Description	Qty.
62050	Cryo Markers	4/pack
62051	Cryo Markers	6 pack/case

III EMS Science Marker™

Fine Tip Alcohol And Water Resistant Cryogenic Marker

These markers are alcohol-resistant on most surfaces. Preliminary testing is required. Not suitable for exposure to Acid/Ethanol mixes.

FEATURES

- Fine tip
- Water resistant
- Alcohol resistant
- Cryogenic permanent marker
- 6 markers per pack

Available in black or green.

Cat No.	Description	Qty.
62043-B	EMS Science Marker, Black	6/pk
62043-G	EMS Science Marker, Green	6/pk



CRYO LABELS AND MARKERS

III Dual-Tip Cryo-Markers™

High quality cryogenic permanent ink markers

These 2-in-1 markers have dual tips: fine (0.7 mm) and extra-fine (0.3 mm) and are easy to handle for applications in bio-medical laboratories.



FEATURES

- Durable, heavy duty, long-lasting nibs
- Low odor
- Permanent and water-resistant (all colors are equally permanent and lasting)
- Excellent performance on plastic, glass, metal, cloth and other surfaces

Available colors: Black, Blue, Brown, Green, Orange, Purple, Red, Yellow



Cat No.	Description	Qty.
62055-01BK	Dual-Tip Cryo-Marker, Black	each
62055-01BL	Dual-Tip Cryo-Marker, Blue	each
62055-01BR	Dual-Tip Cryo-Marker, Brown	each
62055-01G	Dual-Tip Cryo Marker, Green	each
62055-01O	Dual-Tip Cryo Marker, Orange	each
62055-01PU	Dual-Tip Cryo Marker, Purple	each
62055-01R	Dual-Tip Cryo Marker, Red	each
62055-01Y	Dual-Tip Cryo Marker, Yellow	each

III EMS Sample Marker Pack

Try our new sampler pack, featuring our three most commonly used marker pens. Each one is slightly different and this pack gives you a chance to try them all to see which type is best for you.

Pack includes 1 each of:

Catalog # 62043-B
EMS Science Marker™



Alcohol-Resistant on most surfaces.

Catalog # 72111
Moist Mark Plus Pen™



Resistant to all solvents.

Catalog # 72109-01
StatMark Pen



Ultrafine tip is ideal for labeling microscope slides and cassettes.

Cat No.	Description	Qty.
72113	EMS Sample Marker Pack	3/pk

III Micro-Tip Cryo-Markers™

High quality cryogenic permanent ink markers

FEATURES

- High quality permanent ink micro-tip marker: Ultra-Fine line 0.25mm
- Hard plastic tips are protected by metal sleeves and will not split, so lines are clean and precise every time
- Permanent and water-resistant (all colors are equally permanent and lasting)
- Excellent performance in areas where detailed writing is required, such as marking on small micro-centrifuge and PCR tubes, labels, beakers, glass plates, X-ray and photographic films



Available colors: Black and Red

Cat No.	Description	Qty.
62055-02BK	Micro-Tip Cryo-Marker, Black	each
62055-02R	Micro-Tip Cryo-Marker, Red	each

III Big Tip Cryo-Markers™

Easy-to-use high quality cryogenic permanent ink markers

Instructions: Discard protective inner cap. Twist end of barrel to advance. Point will not retract. Recap after use.

Available colors: Fluorescent Orange, Fluorescent Pink, Fluorescent Yellow, Black, Blue, Green, Orange, Purple, Red, Yellow



Cat No.	Description	Qty.
62055-03FO	Big-Tip Cryo-Marker, Fluorescent Orange	each
62055-03FP	Big-Tip Cryo-Marker, Fluorescent Pink	each
62055-03FY	Big-Tip Cryo-Marker, Fluorescent Yellow	each
62055-03BK	Big-Tip Cryo Marker, Black	each
62055-03BL	Big-Tip Cryo Marker, Blue	each
62055-03G	Big-Tip Cryo Marker, Green	each
62055-03O	Big-Tip Cryo Marker, Orange	each
62055-03PU	Big-Tip Cryo Marker, Purple	each
62055-03R	Big-Tip Cryo Marker, Red	each
62055-03Y	Big-Tip Cryo Marker, Yellow	each

LABEL PRINTERS



III Tissue-Tek® SmartWrite Color Slide Printer

On-Demand Color Slide Printing is what you get with this unit

Features and Benefits

- High resolution color printing - reduces need for managing multiple color slide inventory, lowering costs
- On-demand slide printing - streamlines workflow and reduces specimen identification errors
- Small footprint - fits perfectly on a microtome work station or next to a cytology slide processor
- Prints directly onto slides - eliminates errors from hand writing and label application
- Scannable 2D and 1D bar code, alphanumeric and graphic printing capabilities — optimizes flexibility for now and in the future
- Optional SmartWrite™ Software - provides configurable label design and is interfaceable to LIS systems
- Print resistant to Xylene, alcohol, histology reagents, stains, heat, and chemicals*. Ensures reliable identification of slides now and in the future

Applications

- On demand slide printing - color or black labels printed directly onto slides

Specifications

Electrical	
Power	AC100–240VAC, 50/60 Hz, 60 watts
Environmental	
Operational Ambient Temp.	10 - 40 degrees C (50 - 105 F)
Operational Relative Humidity	30 - 85% (non-condensing)
Storage Ambient Temp.	-10 - 60 degrees C (14 - 140 F)
Storage Relative Humidity	10 - 85% (non-condensing)
Physical	
Height	8.6" (218.4mm)
Width	7.08" (179.8mm)
Depth	12.58" (319.5mm)
Weight	16.8 lbs. (7.62 kg)
User Interface	
Power Button	One power switch with LED indicator, located on the upper right side of the control panel on the front of the instrument
Slide Feed Button	One button with LED indicator located on the upper right side of the control panel on the front of the instrument beneath the power button
Lid Open Button	One button located on the upper left side of the instrument
Blue Slide	Illuminates blue slide holder indicating



Holder Light	Proper loading
Diagnostic Function	Self diagnosis, error messages and codes
Functional Printing Technology	Thermal transfer
Print Speed	Up to 9 slides/minute (monochrome) Up to 5 slides/minute (solid colors) Up to 4 slides/minute (blended colors)
Print Resolution	300 dpi
Ink Type	Resin thermal transfer
Ribbon Types	CMYK: 1000 prints; Black: 5000 prints
Printable Colors	Multiple solid colors; others available via software
Slide Types	3" x 1" standard or positive charged, smooth surface white frosted end, clipped corners
Slide Capacity	100 slides - Blue Slide Holder
Output Tray Capacity	15 slides
Construction	Steel frame with powder-coated steel and plastic covers
Data Interface	USB 2.0
Printer Drivers	Windows™ XP/Vista/7
Warranty	One year parts and labor

Applications
On demand slide printing — color or black labels printed directly onto slides

Ordering Information

Cat. #	Description	Qty.
65455	Slide Printer	each
65456	Scanner With Stand	each
65457	SmartWrite Software	each
65458	PC with touchstone, mouse and keyboard	each
65459	Slide Holder, Blue	each
65455-BL	Print Cartridge, Black	6/case
65455-CO	Print Cartridge, Color	6/case

* CAUTION: Contact with the Tissue-Tek® SmartWrite™ color printed label while wet with organic solvents will result in loss of printed information

Standard Accessories

- One Operating Manual
- One Quickstart Guide
- One Printer Driver
- One Blue Slide Holder
- One Black Print Cartridge
- One Color Print Cartridge
- One Print Head Cleaning Pen
- One USB Cable
- One Power Cord
- One Power Converter

Optional Accessories

- 2D Bar Code Scanner with Stand
- Tissue-Tek® SmartWrite™ Software
- Touch Screen PC
- Blue Slide Holder one
- Black Print Cartridge 6/case
- Color Print Cartridge 6/case

Optional Accessories for Tissue Tek SmartWrite™ Shuttle® Computer X50V2 PLUS Touch Screen PC

Specifications

RAM	1GB PC3-10600 1333MHZ DDR3 SODIMM NON-ECC
Hard Drive	250GB SATA 5400 RPM 8MB 2.5"
OS Windows®	7 Home Premium 32 BIT. Includes: Windows®7 Home Premium 32 BIT Recovery DVD
Form Factor	All-in-one PC
Net Weight	3.6kg
Dimension	(W) 15.4" x (H) 12.8" x (D) 1.4"
Processor	Intel® Atom™ D510 Dual Core CPU (1,66 GHz). CPU on board
Memory	2 Slot (Supports up to 4 GB DDRII, Max 2 x 2GB)
Chipset	NM10
VGA	Intel® GMA 3150 with a powerful 400MHz core. Dynamic Video Memory Technology (DVM) 4.0. Intel® ClearVideo Technology
Ethernet	JMC261 IEEE 802.3u 100Base-T specification compliant. 10MB/s,100MB/s. Support Wake-On-LAN function
Storage Interface Support	2.5" Hard Drive

Power	40W Power Adapter. Input: 100- 240V AC
LCD Panel	15.6" 16:9 Wide Panel, 1366 x 768 pixels
Touch Screen	Single Touch
Web Cam	1.3M Pixel
MIC	Electret Condenser Microphone
Left Side	Power-on button, Stylus pen port, USB port x 2, DC-input for power supply
Right Side	4 in 1 Card reader, USB port x 2, Headphone, Mic, LAN port
Back Panel	D-sub port x 1, Serial port x 2 (optional), Parallel port x 1 (optional), Kensington lock
Audio	IDT92HD81 2 Channel High, 2W x 2 Stereo speaker
Accessories	Quick Guide x 1, 65W Power Adapter x 1, power cord x 1, Driver CD x 1
Wireless LAN	IEEE 802.11b/g/n
Card Reader	4 in 1 Card Reader (support SD/MMC/MS/MS-pro)
Software	Shuttle Control AP

DataLogic® Gryphon™ GD4430-HCK1 2D Barcode Scanner

Specifications

Decoding Capabilities

1D	Linear Codes Autodiscriminates all standard 1D codes including GS1, DataBar™ linear codes
2D	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; QR Code

Electrical

Current	Operating (Typical)160 mA @ 5 VDC; Standby/Idle (Typical): 65 mA @ 5 VDC
Input Voltage	4.2 - 5.25 VDC

Reading Ranges

Typical Depth of Field	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.
Code 39	5 mils: 4.0 to 19.0 cm / 1.6 to 7.5 in
Code 39	10 mils: 1.0 to 30.0 cm / 0.4 to 11.8 in
Data Matrix	10 mils: 2.0 to 16.0 cm / 0.8 to 6.3 in
Data Matrix	15 mils: 0 to 23.6 cm / 0 to 9.3 in
EAN-13	13 mils: 1.5 to 40.0 cm / 0.6 to 15.7 in
PDF417	10 mils: 0.5 to 22.0 cm / 0.2 to 8.6 in
QR Code	10 mils: 3.0 to 12.5 cm / 1.2 to 4.9 in

Reading Performance

Image Capture	Graphic Formats: BMP, JPEG, TIFF; Greyscale: 256, 16, 2
Image Sensor	Wide VGA: 752 x 480 pixels
Light Source Aiming	650 nm VLD
Motion Tolerance	25 IPS
Print Contrast	25% Ratio (Min.)
Reading Angle Pitch	+/- 40°; Roll (Tilt): 180°; Skew (Yaw): +/- 40°
Reading Indicators	Beeper (Adjustable Tone); Datalogic 'Green Spot' Good Read Feedback; Good Read LED
Resolution (Max.)	1D Linear: 0.102 mm/4 mils; Data Matrix: 0.178 mm/7 mils; PDF417: 0.102 mm/4 mils

Special

Disinfectant-Ready enclosures treated with anti-microbial additives; Highly visible 4-Dot aimer with center cross for targeted scanning

RELATED PRODUCTS...

Moist Mark Plus Pen™



These pens are resistant to all solvents. They write smooth, dark and fine on all cassettes and slides. They can be used for cytology as a "dotting" reference marker, as well.

Strictest manufacturing standards. Proprietary, formulated ink.

Cat No.	Description	Qty.
72111	Moist Mark Plus Pen™	10/pk

StatMark Pen



Permanent ink in an ultrafine tip is ideal for labeling microscope slides and cassettes. StatMark Pens are made of rigid nylon that allow for precise hand marking on glass slides as well as on most tissue embedding cassettes. This quick drying ink is highly resistant to aqueous based stains, alcohols, xylene and xylene substitutes. StatMark Pens do not dry out easily and last twice as long as many of the leading 'laboratory' pens.

Cat No.	Description	Qty.
72109-01	StatMark Pen	each
72109-12	StatMark Pen	12/box

EMS Science Marker™

These fine tip cryogenic permanent markers are alcohol- and water-resistant on most surfaces. Preliminary testing is required. Not suitable for exposure to Acid/Ethanol mixes. Available in black or green.



Cat No.	Description	Qty.
62043-B	EMS Science Marker, Black	6/pk
62043-G	EMS Science Marker, Green	6/pk

LABEL PRINTERS



LABeler™ Lab Printer

Proper identification of samples is often a key objective of the research laboratory. The process of writing on sample tubes/containers can be messy and unreliable. It can also be difficult to find the time to access a computer and design a layout for expensive ink jet labels. The new LABeler™ Lab Printer provides the convenience of a lab pen with the benefits of a large desktop printer. Simply type in the desired copy using the 50+ button key pad and press the print key and within seconds your label can be cut by pressing the cut lever and is then ready for application.

With over 15 available sizes, colors and material combinations, the LABeler™ is ideal for label identification of any laboratory vessel for nearly any laboratory application. Standard label tapes can be autoclaved, boiled or even frozen to temperatures as low as -50°C. Special Ultra-Low label tapes are also available for storage in -80°C environments or for liquid nitrogen applications.

- Lightweight, handheld operation
- Variety of label tapes for many tube sizes
- Built in cutter – no need for scissors
- Prints a variety of barcodes
- "Ultra-Low" tape for liquid nitrogen storage

Cat No.	Description	Qty.
77600-01	LABeler™ Lab Printer, w/115V power supply	each
77600-16	LABeler™ Lab Printer, w/220V power supply	each
77600-02	LABeler™ Lab Printer, no power supply	each
77600-03	Power supply for LABeler™ Lab Printer	each
77600-04	26' Cassette of 6 mm lab tape, white w/blk print	each
77600-05	26' Cassette of 6 mm lab tape, clear w/blk print	each
77600-06	26' Cassette of 12 mm lab tape, white w/blk print	each
77600-07	26' Cassette of 12 mm lab tape, clear w/blk print	each
77600-08	26' Cassette of 12 mm lab tape, yellow w/blk print	each
77600-09	26' Cassette of 12 mm lab tape, red w/white print	each
77600-10	26' Cassette of 12 mm lab tape, blue w/white print	each
77600-11	26' Cassette of 12 mm lab tape, grn w/white print	each
77600-12	26' Cassette of 24 mm lab tape, white w/blk print	each
77600-13	26' Cassette of 24 mm lab tape, clear w/blk print	each
77600-14	26' Cassette of 12 mm ULT tape, white w/blk print	each
77600-15	26' Cassette of 24 mm ULT tape, white w/blk print	each



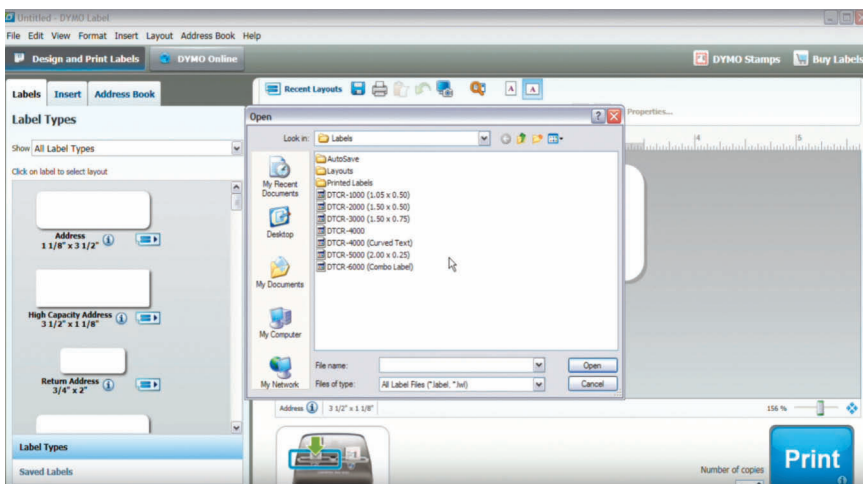
Dymo LabelWriter

Dymo LabelWriters are compatible with direct thermal CryoTags® and Wet Grip labels. The Dymo has a small bench-top footprint, it is easy to setup and is very affordable. Ready-made templates will enable you to print in seconds. Barcoding is also possible. Ask for samples!

*All labels are white, on 1" I.D. cores

Cat No.	Description	Qty.
77577-50	Dymo® LabelWriter® 450	each

Dymo and LabelWriter are registered trademarks of the Dymo Corp., an Esselte Office Products Co.



**See how it works...
Learn how to do it...**

We've added video content to our website to help you get to know our latest products even better!
Stop by and see what it's all about.

www.emsdiasum.com

Follow us on Social Media...

At Electron Microscopy Sciences, we love sharing our knowledge and experience with our customers. And with social media, there are even more ways to reach out. But we also love hearing from YOU! Either way, there's plenty to see, share, and enjoy...

- Trade Show Information
- New Product Announcements
- News, Polls, & Contests
- Technical Notes from Stacie
- Networking with fellow researchers
- Instructional Video
- ...and lots more

We hope to see you there!



**Electron
Microscopy
Sciences**

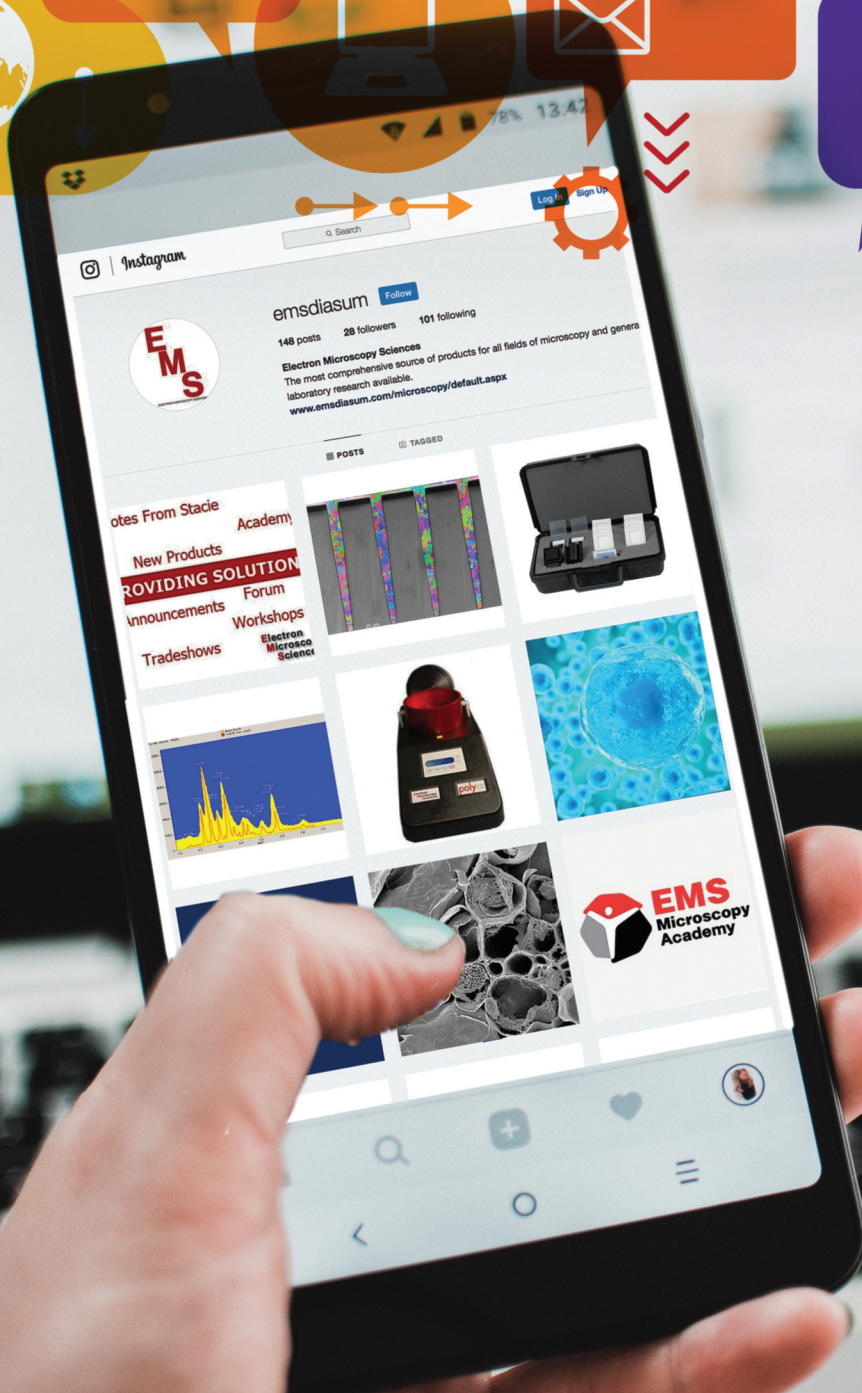
P.O. Box 550 • 1560 Industry Rd.
Hatfield, PA 19440

Tel: (215) 412-8400

Fax: (215) 412-8450

email: info@emsdiasum.com
or stacie@ems-secure.com

www.emsdiasum.com





The most comprehensive source for all fields of microscopy and general laboratory research

**Electron
Microscopy
Sciences**

P.O. Box 550 • 1560 Industry Rd. • Hatfield, PA 19440
 Tel: (215) 412-8400 • Fax: (215) 412-8450
 email: info@emsdiasum.com or stacie@ems-secure.com

OUR MAIN INTERACTIVE WEBSITE:
www.emsdiasum.com

Follow us on...



 TO REQUEST A COPY OF OUR FULL LINE CATALOG:
www.emsdiasum.com/requests/catalog

 TO VIEW OUR DIGITAL FULL LINE CATALOG:
catalog.emsdiasum.com

 ...OR SCAN HERE:

