



Wafer storage and shipping





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■ eLX™ Wafer Canisters*

- Secure 4 latch system (with 2 latch option)
- Enhanced protection of wafer surfaces
- Impact resistant design
- Advanced design minimizes particle generation
- Large label areas
- Interfaces with industry robotic handling equipment
- Drop-in replacement for old industry designs
- Minimizes lateral movement without applying compression to delicate wafer edges

Wafer canisters



Wafer size	ePAK description	Internal diameter	Internal height	Corner latches	Outside base Size	ePAK order code
6"	eCT-LX6/150-4-44-R.1-ASSY-1-eM-01-BLK	151 mm	44 mm (1.73")	4	174.5 mm x 174.5 mm	eWB0086-4-ASSY-1
8"	eCT-LX8/200-4-44-ASSY-1-eM-01-BLK	201 mm	44 mm (1.73")	4	225 mm x 225 mm	eWB0018-4-ASSY-1
12"	eCT-LX12/300-4-44-ASSY-1-eM-01-BLK	301.5 mm	44 mm (1.73")	4	326 mm x 326 mm	eWB0026-4-ASSY-1

Material code options

Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5

(* Patents: US #6988620, PRC #ZL 03 2 07820 X, Singapore #106157, Taiwan # I299315, Japan #4383808)



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■ Standard Wafer Canisters

- For high-security transit of wafers
- Designed for stacking
- Quick release snap-lock design for lid removal
- Recessed slots for easy loading and unloading
- Wafer loader machine compatible with most industry equipment

Standard wafer canisters



Wafer size	ePAK description	Internal diameter	Internal height	Corner latches	ePAK order code
6"	eCT-152-26-ASSY-1-eM-01-BLK	152 mm	26 mm (1.1")	2	eWB0007-ASSY-1
8"***	eLC-T18/200-4-ASSY-5-eM-01-BLK	202 mm	28 mm (1.1")	4	eWB0075-4-ASSY-5
12"***	eCT-303-21-4-ASSY-5-eM-01-BLK	303 mm	21 mm (0.9")	4	eWB0009-ASSY-1

(** Patented "Double Ring" Design)

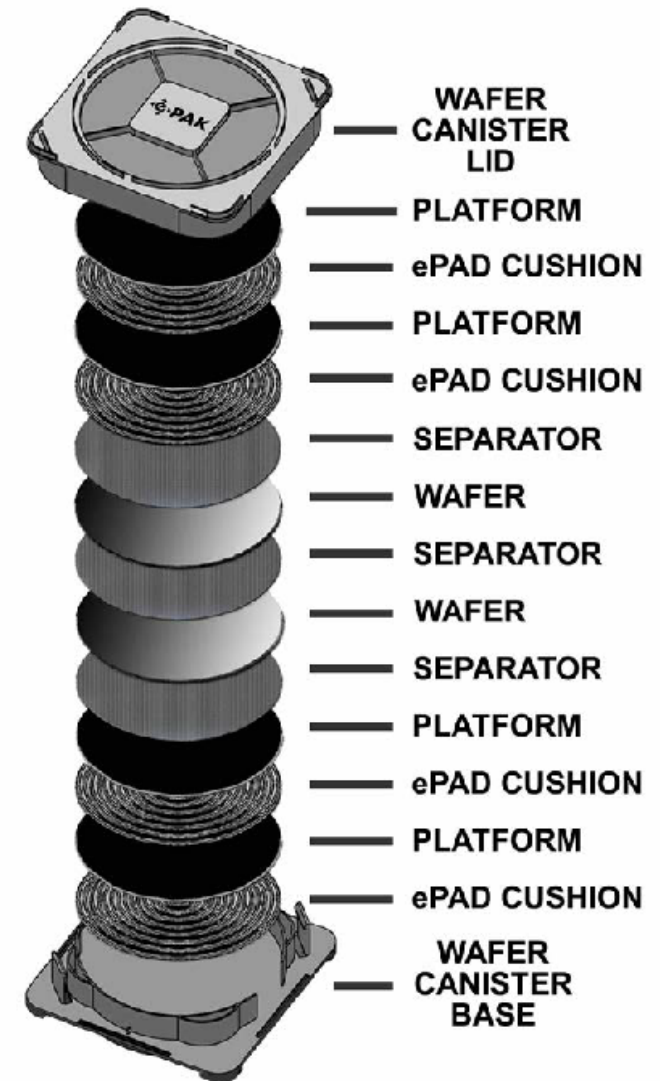
Material code options

Material	Code	SR
Conductivxe PP	eM-01-BLK	10e4-10e5

■ ePAD™* Wafer Protection System

High performance alternative to foam-based solutions

- Made from proprietary, low-ionic, flexible, conductive polystyrene
- Ideal for both Cu and Al metallized wafers
- Best choice for both long and short term storage needs
- Available for 6", 8" and 12" wafer sizes



(* Patents: US #7425362, Singapore #105587, Japan #4205540, Taiwan #I297662, PRC#ZL 03 2 07819.6)



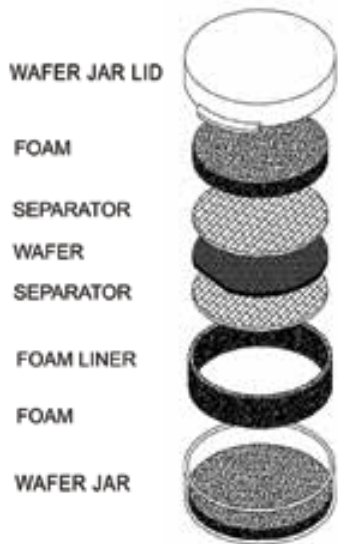
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■ Wafer Jars

- Easy loading/unloading in automated or manual applications
- Impact resistant containers feature a snap-on lid for secure packing
- Available in both conductive PP and natural (non-conductive) PP materials
- A wide range of cushion disks, jar liners and wafer separators are available



Wafer jars



Wafer size	ePAK description	Internal diameter	Internal height	ePAK order code
4"	eJR4-100-32-ASSY-3-eM-08-NAT	111 mm	32 mm (1.3")	eWB0044-ASSY-3
6"	eJR-170-38-ASSY-14. eKT6J1.5-4F6C (Kit 1)	167 mm	38 mm (1.5")	eWB0001-ASSY-14
8"	eJR-235-51-ASSY-5-eM-08-NAT (Kit 2)	235 mm	51 mm (2")	eWB0010-ASSY-5
12"*	eJR12-300-23-ASSY-5-eM-08-NAT	303 mm	23 mm (0.9")	eWB0054-ASSY-2
Kit 1 eJR-170-38-ASSY-14. eKT6J1.5-4F6C 1x 6" Wafer Jar eJR6-170-38-eM-08 167mm ID 38mm IH 1x Jar Foam Liner eFL6-518-37-6-eM-04-H (Closed Cell) 4x 6" Foam Cushion Disks eFD6-150-6-eM-04-H (Closed Cell)		Kit 2 eJR-235-51-ASSY-5-eM-08-NAT 1x Jar eJR-235-51-eM-08 1x Liner eFL8-712-50-13-eM-04-H 7x Foam eFD8-205-6-eM-04-H		

* NOTE Patented "Double Ring" design does not require a foam liner

Material code options

Material	Code	SR
Natural PP	eM-08-NAT	n/a

■ Wafer Separators

■ Wafer Separators – (Interleaf) for use between individual wafers

Anti-static spun PO (tyvek®)

Wafer size	ePAK description	Interleaf diameter	Separator height	ePAK order code
4"	eIL4-100-0.16-eM-03-A-WHT	100 mm	0.16 mm (.006")	eIL0010-eM-03-A-WHT
6"	eIL6-150-0.16-eM-03-A-WHT	150 mm	0.16 mm (.006")	eIL0005-eM-03-A-WHT
8"	eIL8-200-0.16-eM-03-A-WHT	200 mm	0.16 mm (.006")	eIL0004-eM-03-A-WHT
12"	eIL12-300-0.16-eM-03-A-WHT	300 mm	0.16 mm (.006")	eIL0006-eM-03-A-WHT

Carbon separator (conductive PS)

Wafer size	ePAK description	Interleaf diameter	Separator height	ePAK order code
4"	eIL4-100-0.07-eM-20-BLK	100 mm	0.07 mm (.003")	eIL0023-eM-20-BLK
6"	eIL6-150-0.07-eM-20-BLK	150 mm	0.07 mm (.003")	eIL0016-eM-20-BLK
8"	eIL8-200-0.07-eM-20-BLK	200 mm	0.07 mm (.003")	eIL0022-eM-20-BLK
12"	eIL12-300-0.07-eM-20-BLK	300 mm	0.07 mm (.003")	eIL0003-eM-20-BLK

Material code options

Material	Code	SR
Anti-static spun OP (Tyvek®)	eM-03-A-WHT	10e6-10e11
Proprietary conductive PS	eM-20-BLK	10e4-10e11



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■ Foam Packing Materials - Foam Cushion Disks

■ ESD sensitive cushioning material for use with canisters and jars

Top/bottom cushion disks

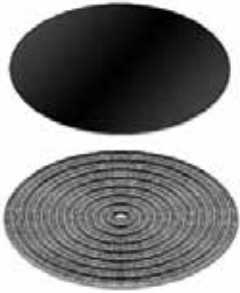


Wafer size	ePAK description	Interleaf diameter	Separator height	ePAK order code
4"	eFD4-100-3-eM-04-H-PNK	100 mm	3 mm	eFD0010-eM-04-H-PNK
6"	eFD6-150-3-eM-04-H-PNK	150 mm	3 mm	eFD0007-eM-04-H-PNK
8"	eFD8-200-3-eM-04-H-PNK	200 mm	3 mm	eFD0006-eM-04-H-PNK
12"	eFD12-300-3-eM-04-H-PNK	300 mm	3 mm	eFD0009-eM-04-H-PNK

Material code options

Material	Code	SR
Closed-cell polyethylene	eM-04-H-PNK	10e5-10e11

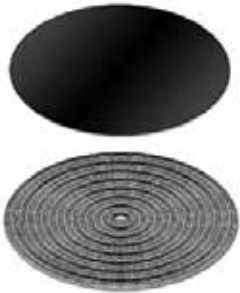
■ ePAD Packing Materials



ePAD™ thermal formed wafer cushions – Particle free, vacuum formed, cushioning material for wafer stack

Wafer size	ePAK description	Interleaf diameter	Separator height	ePAK order code
6"	eWP6-150-5-eM-20-BLK	150 mm	5 mm	eVT0048-eM-20-BLK
8"	eWP8-200-3-eM-20-BLK	200 mm	3 mm	eVT0209-eM-20-BLK
12"	eWP12-300-5-eM-20-BLK	300 mm	5 mm	eVT0210-eM-20-BLK

ePAD™ wafer platforms – Provides the flat surface required for the proper function of the ePAD system



Wafer size	ePAK description	Interleaf diameter	Separator height	ePAK order code
6"	eFP6-150-0.8-eM-20-BLK	150 mm	0.8 mm	eVT0049-eM-20-BLK
8"	eFP8-200-0.8-eM-20-BLK	200 mm	0.8 mm	eVT0050-eM-20-BLK
12"	eFP12-300-0.8-eM-20-BLK	300 mm	0.8 mm	eVT0211-eM-20-BLK

Material code options

Material	Code	SR
Proprietary conductive PS	eM-20-BLK	10e4-10e11



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■ ePAD Packing Materials

eFORM™ – Clean Adjustable Platform option to minimize vertical movement

Wafer size	ePAK description	Diameter	Adjustable height	ePAK order code
6"	eAP6-150-16-eM-01-BLK	150 mm	16 mm	eOP0042-eM-01
8"	eAP8-200-16-eM-01-BLK	200 mm	16 mm	eOP0041-eM-01
12"	eAP12-300-16-eM-01-BLK	300 mm	16 mm	eOP0045-eM-01

Material code options

Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5

Please note we supply a full range of vacuum wands with a great variety of vacuum tips for any application.



■ Vacuum Formed Boxes

- Designed to hold 25 wafers by the edge
- Economical solution for small wafers
- 2 piece design includes lid and base

Vacuum formed boxes



Wafer size	ePAK description	Internal diameter	ePAK order code
1"	eV8-1/25-25-0.8-ASSY-1-eM-21-CLR	25 mm	eVT0404-ASSY-1
2"	eV8-2/50-25-0.8-ASSY-1-eM-21-CLR	50 mm	eVT0241-ASSY-1
2.5"	eV10-2.5/63.5-25-0.8-ASSY-1-eM-21-CLR	63.5 mm	eVT0406-ASSY-1
3"	eV10-3/76-25-0.8-ASSY-1-eM-21-CLR	76 mm	eVT0294-ASSY-1
4"	eV12-4/100-25-0.7-ASSY-1-eM-21-CLR	100 mm	eVT0293-ASSY-1
6"	eV15-6/150-13-ASSY-1-eM-21-CLR	150 mm	eVT0736-ASSY-1

Material code options

Material	Code	SR
Clear PS	eM-21-CLR	n/a



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■ Wafer Shipping Boxes

- Designed to hold multiple wafers by the edge
- 3 piece design includes top, cassette, and base
- Designed to interface with automated equipment
- Clean room plastic shipping bags available

Wafer shipping boxes



Wafer size	ePAK description	Internal diameter	ePAK order code
1"	eMS-1/25.4-25-R.1-ASSY-1-eM-08-NAT	25.4 mm	eWB0302-ASSY-1
2"	eMS-2/50-25-ASSY-1-eM-08-NAT	50 mm	eWB0028-ASSY-1
2.5"	eMS-2.5/61.75-25-ASSY-1-eM-08-NAT	61.75 mm	eWB0105-ASSY-1
3"	eMS-3/76-25-ASSY-1-eM-08-NAT	76 mm	eWB0029-ASSY-1

Material code options

Material	Code	SR
Natural PP	eM-08-NAT	n/a

■ ePRO™ Wafer Shipping Boxes

- Designed to hold 25 wafers by the edge
- Made from ultra-clean PP material
- 3 piece design includes lid, cassette, and base

ePRO™ wafer shipping boxes



Wafer size	ePAK description	Internal diameter	ePAK order code
4"	ePRO III-4/100-25-ASSY-4-eM-08	100 mm	eWB0253-ASSY-4
6"	ePRO III-6/150-25-ASSY-6-eM-08	150 mm	eWB0209-ASSY-6
8"	ePRO III-8/200-25-ASSY-4-eM-08-V2	200 mm	eWB0283-ASSY-4

Material code options

Material	Code	SR
Natural PP	eM-08-NAT	n/a



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■ Process Boats

- Easy and safe handling of wafers.
- Available in 2", 3", 4" 6" & 8"
- Open or closed slot design.

Process boats 2", 3" & 4"



Wafer size	ePAK description	Internal diameter	ePAK order code
2"	ePB-2/50-25-eM-08-BLU	50 mm	eWB0031-eM-08-BLU
2"	ePB-2/50-25-R.1-eM-39-NAT	50 mm	eWB0316-eM-39-NAT
3"	ePB-3/76-25-R.2-eM-08-BLU	76 mm	eWB0092-eM-08-BLU
3"	ePB-3/76-25-R.6-eM-39-NAT	76 mm	eWB0306-eM-39-NAT
4"	ePB-4/100-25-R.8-eM-08-BLU	100 mm	eWB0308-eM-08-BLU
4"	ePB-4/100-25-R.9-eM-39-NAT	100 mm	eWB0309-eM-39-NAT

Material code options

Material	Code	SR	Color
Polypropylene	eM-08-BLU	n/a	Blue
PFA	eM-39-NAT	n/a	No color option

■ Process Boats

- Easy and safe handling of wafers.
- Available in 2", 3", 4" 6" & 8"
- Open or closed slot design.

Process boats



6"



8"

Wafer size	ePAK description	Internal diameter	ePAK order code
6"	ePB-6/150-25-eM-08-BLU	150 mm	eWB0051-eM-08-BLU
6"	ePB-6/150-25-eM-01-BLK	150 mm	eWB0051-eM-01-BLK
6"	ePB-6/150-25-R.8-eM-39-NAT	150 mm	eWB0304-eM-39-NAT
8"	ePB-8/200-25-R.2-eM-08-BLU	200 mm	eWB0090-eM-08-BLU
8"	ePB-8/200-25-R.2-eM-01-BLK	200 mm	eWB0090-eM-01-BLK
8"	ePB-8/200-25-R.6-eM-39-NAT	200 mm	eWB0220-eM-39-NAT

Material code options

Material	Code	SR	Color
Polypropylene	eM-08-BLU	n/a	Blue
PFA	eM-39-NAT	n/a	No color option
Conductive Polypropylene	eM-01-BLK	10e4-10e5	Black only



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■ Process Boat Storage Boxes



2"



3"



4"



6"



8"

- Storage boxes are stackable
- Available in many material options: eM-01-BLK is equivalent to Entegris® Stat-Pro® 100 (PP + CP) material

Process boat storage boxes

Wafer size	ePAK description	ePAK order code
2"	ePBX-2-Shelf-eM-01-BLK	eWB0095-SHELF-eM-01-BLK
3"	ePBX-3-R.2-Shelf-eM-01-BLK	eWB0123-SHELF-eM-01-BLK
4"	ePBX-4-ASSY-12-eM-01-BLK	eWB0124-ASSY-12 (eM-01-BLK)
6"	ePBX-6/150-R.3-ASSY-6-eM-01-BLK	eWB0099-ASSY-6
8"	ePBX-8/200-ASSY-23-eM-01-BLK	eWB0094-ASSY-23

Material code options

Material	Code	SR	Color
Conductive Polypropylene	eM-01-BLK	10e4-10e5	Black only

■ Handles for Process Boats

- Easy and safe handling of wafers.
- Available in 2", 3", 4" 6" & 8"
- With locking bar

Handles



mOP0171



mOP0202

For boat size	Locking bar order code	Description	ePAK order code
2"	mOP0171-2-eM-39 with mOP0171-LOCKING BAR-eM-39	2" HANDLE ASSY-1	mOP0171-2-ASSY-1
3"	mOP0171-3-eM-39 with mOP0171-LOCKING BAR-eM-39	3" HANDLE ASSY-1	mOP0171-3-ASSY-1
4"	mOP0171-4-eM-39 with mOP0171-LOCKING BAR-eM-39	4" HANDLE ASSY-1	mOP0171-4-ASSY-1
6"	mOP0171-6-eM-39 with mOP0171-LOCKING BAR-eM-39	6" HANDLE ASSY-1	mOP0171-6-ASSY-1
8"	mOP0202-8-eM-39 with mOP0202-LOCKING BAR-eM-39	8" HANDLE ASSY-2	mOP0202-8-ASSY-2

Material code options

Material	Code	SR
PFA	eM-39-NAT	n/a

Full range of process tanks in PP, PTFE or heated quartz baths available. Also contact us for your megasonic applications.



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■ “Coin-Style” Single Wafer Shippers*

- Easy loading/unloading in automated or manual applications
- Available in Conductive PP & natural (non- conductive) PP material
- Impact resistant with a screw-on lid for secure packing

Coin-style shippers



Wafer size	ePAK description	Internal diameter	ePAK order code
1" (25mm)	eCT1-25-ASSY-1-eM-08-NAT	25.4 mm	eWB0091-ASSY-1
1.5" (38mm)	eCT1.5-38-ASSY-1-eM-08-NAT	39.6 mm	eWB0325-ASSY-1
2" (50mm)	eCT2-50-ASSY-1-eM-08-NAT	52 mm	eWB0021-ASSY-1
2.5" (63mm)	eCT2.5-63-ASSY-1-eM-08-NAT	65.5 mm	eWB0328-ASSY-1
3" (76mm)	eCT3-76-ASSY-1-eM-08-NAT	78.6 mm	eWB0022-ASSY-1
4" (100mm)	eCT4-100-ASSY-1-eM-08-NAT	104 mm	eWB0024-ASSY-1
5" (125mm)	eCT5-125-ASSY-1-eM-08-NAT	127 mm	eWB0060-ASSY-1
6" (150mm)	eCT6-150-ASSY-1-eM-08-NAT	152 mm	eWB0025-ASSY-1

(* Patent Pending)

Material code options

Material	Code	SR
Natural PP	eM-08-NAT	n/a
Conductive PP	eM-01-BLK	10e4-10e5

■ Single Wafer Shippers

Clamshell-style shippers - Hinged single wafer shippers



Wafer size	ePAK description	Internal diameter	Internal height	ePAK order code
8"	eCT8-200-0.7-ASSY-1-eM-12-CLR	200 mm	0.7 mm	eWB0016-ASSY-1
8"	eCT8-200-0.7-ASSY-2-eM-22-BLK	200 mm	0.7 mm	eWB0016-ASSY-2
12"	eCT12-300-0.8-ASSY-1-eM-01-BLK	300 mm	0.8 mm	eWB0053-ASSY-1
12"	eCT12-300-0.8-ASSY-2-eM-08-NAT	300 mm	0.8 mm	eWB0053-ASSY-2

Vacuum formed shippers – Single wafer shippers

Wafer size	ePAK description	Internal diameter	ePAK order code
8"	eV10-8/200-ASSY-1-eM-25	200 mm	eVT1605-ASSY-1
12"	eV9-12/300-ASSY-1-eM-25	300 mm	eVT1415-ASSY-1

Material code options

Material	Code	SR
Clear PC	eM-12-CLR	n/a
Conductive PC	eM-22-BLK	10e2-10e6
Natural PP	eM-08-NAT	n/a
Conductive PP	eM-01-BLK	10e4-10e5
Clear, A/S coated, APET	eM-25	10e7-10e11

■ Hoop Rings / Grip Rings / Expansion Rings

Hoop rings / grip rings / expansion rings - Full range of sizes, custom colors available



ePAK description	Diameter	Ring height	Locator notch	Standard color	ePAK order code
eHR-170/186-6-IN-eM-16-GRY	ID= 170mm	6 mm	Yes	Grey	eOP0049-eM-16-GRY
eHR-170/186-6-OUT-eM-16-BLU	OD= 186mm	6 mm	Yes	Blue	eOP0048-eM-16-BLU
eHR-225/241-6-IN-eM-16-YLW	ID= 225mm	6 mm	No	Yellow	eOP0183-R-eM-16-YLW
eHR-225/241-6-OUT-eM-16-RED	OD= 241mm	6 mm	No	Red	eOP0182-R-eM-16-RED
eHR-140/152-6-IN-eM-16-GRY	ID= 140mm	6 mm	No	Grey	eOP0051-eM-16-GRY
eHR-140/152-6-OUT-eM-16-BLU	OD= 152mm	6 mm	No	Blue	eOP0050-eM-16-BLU

NOTE: The word "UP" printed is SPS Standard style. For printing the word "RADIUS" please add "-R" to end of the SPS Order Code

Material code options

Material	Code	SR
MPC	eM-16-Y	n/a

Hoop rings / grip rings / expansion rings - Designed to hold single hoop ring assembly with wafer and tape



ePAK description	ID/OD of ring set(s) held	ePAK order code
eV11-HRS-195/210.170/186-eM-20-BLK	195/210 mm & 170/186 mm	eVT0289-eM-20-BLK
eV11-HRS-140/152-R.2-eM-20-BLK	140 mm / 152 mm	eVT0336-eM-20-BLK
eV12-HRS-225/241-R.2-eM-20-BLK	225 mm / 241 mm	eVT0939-eM-20-BLK

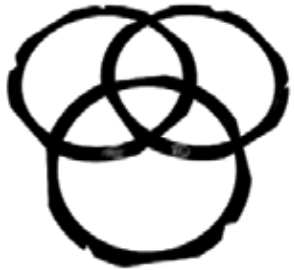
Material code options

Material	Code	SR
Proprietary conductive PS	eM-20-BLK	10e4-10e11

■ Dicing / Flex / Film Frames

- Designed for 100, 125, 150, 200 and 300 mm wafers
- Low cost alternative to metal flex frames
- Designed to be used one time and then discarded
- Of special interest to those who ship wafers to customers on flex frames
 - No need to bear freight cost to return heavy metal frame
 - No need for cleaning metal frame before reuse
- Call for further details +31 341 360 590

Dicing / flex / film frames



ePAK description	Flat to flat	Internal diameter	Internal height	Fits into flex frame shipper	ePAK order code
eFF6-150-2.2-R.8-eM-59-BLK	216 mm	185 mm	2.2 mm	eVT0415-x	eOP0437-eM-59-BLK
eFF8-200-2.6-eM-59-BLK	276 mm	250 mm	2.6 mm	eVT0320-x	eOP0132-eM-59-BLK
eFF12-300-3.5-eM-59-BLK	380 mm	350 mm	3.5 mm	eVT0287-x	eOP0137-eM-59-BLK

Material code options

Material	Code	SR
PPS Glass Reinforced	eM-59-BLK	n/a

Full range of backgrinding and wafer dicing adhesive tapes available.



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■ Dicing / Flex / Film Frames

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Dicing / flex / film single frame shippers - For shipping flex frames with mounted wafers



Wafer size	ePAK description	Frame dims flat to flat	Shipper style	Framestyle	Material	ePAK order code
6"	eFS6-150-R.5-eM-20-BLK	216 mm	C	K&S 350-103	Proprietary conductive	eVT1384-eM-20-BLK
8"	eFS8-200-R.2-eM-20-BLK	276 mm	C	DISCO DTF 2-8-1	Proprietary conductive	eVT0320-eM-20-BLK
12"	eFS12-300-A-eM-20-BLK	380 mm	C	SEMI G74 & G87	Proprietary conductive	eVT0287-eM-20-BLK

Dicing / flex / film frame multi-shippers - for vertical shipping of multiple Flex Frames with mounted wafers



6" 150mm

Wafer size	ePAK description	Flex frame height (manuf.)	Material	ePAK order code
6"	eFS6-150-25-R.1-ASSY-11-eM-01	212 mm (DISCO outline)	Conductive PP	eWB0214-ASSY-11
8"	eFS8-200-25-R.1-ASSY-7-eM-01	276 mm (DISCO outline)	Conductive PP	eWB0152-ASSY-7
12"	eFS12-300-13-ASSY10-eM-01	380 mm	Conductive PP	eWB0195-ASSY-10

Material code options

Material	Code	SR
Proprietary conductive PS	eM-20-BLK	10e4-10e11
Conductive PP	eM-01-BLK	10e4-10e5



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