



Solar Products Catalog

SOLAR CELL PROCESS BOATS

- Designed for Square Solar Cell Wafers
- Holds 25 wafers
- Open slots for easy washing
- PVDF material option for Wet Bench processing
- End features can link boats together to hold multiples of 25

Product info

Wafer Size	ePAK P/N Description	ePAK Order Code	Available
103x103	ePB-103x103-25-x-y	eWB0131-x-y	NOW
125x125	ePB-125x125-25-x-y	eWB0107-x-y	NOW
125x125 (See Note #1)	ePB-125x125-25-R.1-x-y	eWB0249-x-y	NOW
156x156	ePB-156x156-25-x-y	eWB0106-x-y	NOW
156x156 (See Note #2)	ePB-156X156-25-R.1-X	eWB0230-x-y	NOW
156x156 (See Note #3)	ePB-156X156-25-R.2-X	eWB0294-x-y	NOW

**NOTE #1: This is same as eWB0107 but without Boat to Boat interlocking features

**NOTE #2: This is same as eWB0106 but without Boat to Boat interlocking features

**NOTE #3: Same design as eWB0106/eWB0230 but without bottom teeth.
(Has the Boat to Boat interlocking feature as an option.)

Material code info (-x in P/N):

Material	Code	SR
Polypropylene (see color options ***)	eM-50-y	n/a
Polyvinylidene Difluoride (PVDF)	eM-56-NAT	n/a

Color code info
(-y in P/N)

B = Blue
G = Green
R = Red
Y = Yellow



SOLAR CELL STORAGE BOXES



- Adapters for Solar Boats to fit into Storage Boxes
- Removable for washability

Product info

Wafer Size	Solar Cell Process Boat Description	Adapter Description	Adapter Order Code	Fits in ePAK Storage Box
103x103	ePB-103x103-25-x-y	ePBX-103x103-Shelf-x	eWB0171-x	ePBX-5/125-R.1-x (eWB0127-x)
125x125	ePB-125x125-25-x-y	Not Needed	n/a	ePBX-5/125-R.1-x (eWB0127-x)
156x156	ePB-156x156-25-x-y	ePBX-156x156-Shelf-x	eWB0170-x	ePBX-8/200-x (eWB0094-x)

Material Code info for adapter plates ONLY(-x in P/N):

Material	Code	SR
Conductive Polypropylene (Black only)	eM-01-BLK	10e4-10e7
Polypropylene	eM-08-y	n/a
PP+PTFE+ CF (Dark Grey only)	eM-45-BLK	10e4-10e10
PP+CF (Black only)	eM-46-BLK	10e4-10e10

***Please match Adapter Plate material code with the Storage Box Material Code being used in application.



ENVELOPES FOR STORAGE BOXES



- Envelopes are manufactured using clear PVC
- Snaps are manufactured using white Nylon (eM-64)

Envelopes info:

For Box sizes	Anti-Static	Description	ePAK Order code	Available
5"	YES	5" ENVELOPE-ASSY-1	mOP0168-ASSY-1	NOW
5"	NO	5" ENVELOPE-ASSY-2	mOP0168-ASSY-2	NOW
8"	NO	8" ENVELOPE-ASSY-1	mOP0185-ASSY-1	NOW

Material code information

Material	Code	SR
White Nylon (Snaps)	eM-64-WHT	n/a
Anti-Static Clear PVC	eM-66	<10e11
Clear PVC	eM-68	n/a

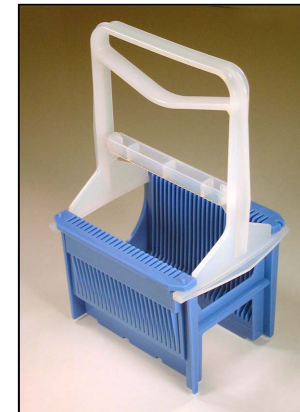


HANDLES FOR SOLAR PROCESS BOAT

For Boat sizes	Description	ePAK Order code	Handle Order Code	Locking Bar Order Code
SOLAR	103x103 Handle ASSY-1	mOP0171-103x103-ASSY-1	mOP0171-103x103-eM-56-NAT	mOP0171-Locking Bar-eM-56-NAT
SOLAR	103x103 Handle ASSY-2	mOP0171-103x103-ASSY-2	mOP0171-103x103-eM-56-NAT	N/A
SOLAR	103x103 Handle ASSY-1	mOP0171-103x103-ASSY-3	mOP0171-103x103-eM-39-NAT	mOP0171-Locking Bar-eM-39-NAT
SOLAR	103x103 Handle ASSY-2	mOP0171-103x103-ASSY-4	mOP0171-103x103-eM-39-NAT	N/A
SOLAR	125x125 Handle ASSY-1	mOP0171-125x125-ASSY-1	mOP0171-125x125-eM-56-NAT	mOP0171-Locking Bar-eM-56-NAT
SOLAR	125x125 Handle ASSY-2	mOP0171-125x125-ASSY-2	mOP0171-125x125-eM-56-NAT	N/A
SOLAR	125x125 Handle ASSY-1	mOP0171-125x125-ASSY-3	mOP0171-125x125-eM-39-NAT	mOP0171-Locking Bar-eM-39-NAT
SOLAR	125x125 Handle ASSY-2	mOP0171-125x125-ASSY-4	mOP0171-125x125-eM-39-NAT	N/A
SOLAR	156x156 Handle ASSY-1	mOP0171-156x156-ASSY-1	mOP0171-156x156-eM-56-NAT	mOP0171-Locking Bar-eM-56-NAT
SOLAR	156x156 Handle ASSY-2	mOP0171-156x156-ASSY-2	mOP0171-156x156-eM-56-NAT	N/A
SOLAR	156x156 Handle ASSY-1	mOP0171-156x156-ASSY-3	mOP0171-156x156-eM-39-NAT	mOP0171-Locking Bar-eM-39-NAT
SOLAR	156x156 Handle ASSY-2	mOP0171-156x156-ASSY-4	mOP0171-156x156-eM-39-NAT	N/A

Material codes(-x in P/N):

Material	Code	SR
PVDF	eM-56-NAT	n/a
PFA	eM-39-NAT	n/a



VF SOLAR CELL SHIPPERS



Product info: Vacuum-Formed Shippers for Solar Cell Wafers

Wafer Size	ePAK P/N Description	Designed for wafers corners	ePAK Order Code	Available
100x100	eV15-100X100X18-x	Sharp or Radius	eVT0929-x	NOW
110x110	eV15-110X110X19.5-x	Sharp or Radius	eVT1676-x	NOW
125x125	eV15-125X125X61-x	Sharp or Radius	eVT0832-x	NOW
156X156	eV15-156X156X61-x	with Radius only	eVT0799-x	NOW
156X156	eV15-156X156X61-R.1-x	Sharp or Radius	eVT0948-x	NOW
160x160	eV15-160X160X19.5-x	Sharp or Radius	eVT1677-x	NOW

Material code info (-x in P/N):

Material	Code	SR
Conductive PS	eM-20-BLK	10e4-10e9
Clear PS material	eM-21-CLR	N/A



SOLAR CELL SHIPPERS

-FOAM & SEPARATORS-

Top/Bottom Cushions – ESD sensitive cushioning material for use with VF Solar Cell Shippers

Wafer Size	ePAK Description	Foam Thickness ("T" in P/N)T	ePAK Order Code
100x100	eFD-100X100-eM-04-H-PNK	3 mm	eFD0026-eM-04-H-PNK
125x125	eFD-125X125-T-eM-04-H-PNK	3 mm or 6mm	eFD0027-eM-04-H-PNK
156x156	eFD-156X156-T-eM-04-H-PNK	3 mm or 6mm	eFD0022-eM-04-H-PNK

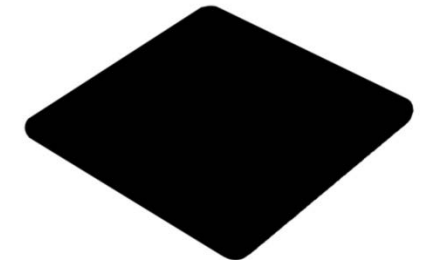


Material code options (–x in P/N):

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

Separators for Solar Cell Wafers – (Interleaf) For use between individual Solar Cell Wafers

Wafer Size	ePAK Description	Separator Thickness	ePAK Order Code
100X100	eIL-100X100-0.16-eM-03-A-WHT	0.16	eIL0065-eM-03-A-WHT
125X125	eIL-125X125-0.07-eM-20-BLK	0.07	eIL0040-eM-20-BLK
125X125	eIL-125X125-0.16-eM-03-A-WHT	0.16	eIL0055-eM-03-A-WHT
156X156	eIL-156X156-0.07-eM-20-BLK	0.07	eIL0033-eM-20-BLK
156X156	eIL-156X156-0.16-eM-03-A-WHT	0.16	eIL0056-eM-03-A-WHT



Material code info (–x in P/N):

Material	Code	SR
Proprietary PS based material	eM-20-BLK	10e4-10e9
Anti-static spun PE (Tyvek®)	eM-03-A-WHT	10e6-10e11



GLASS SUBSTRATE SHIPPERS



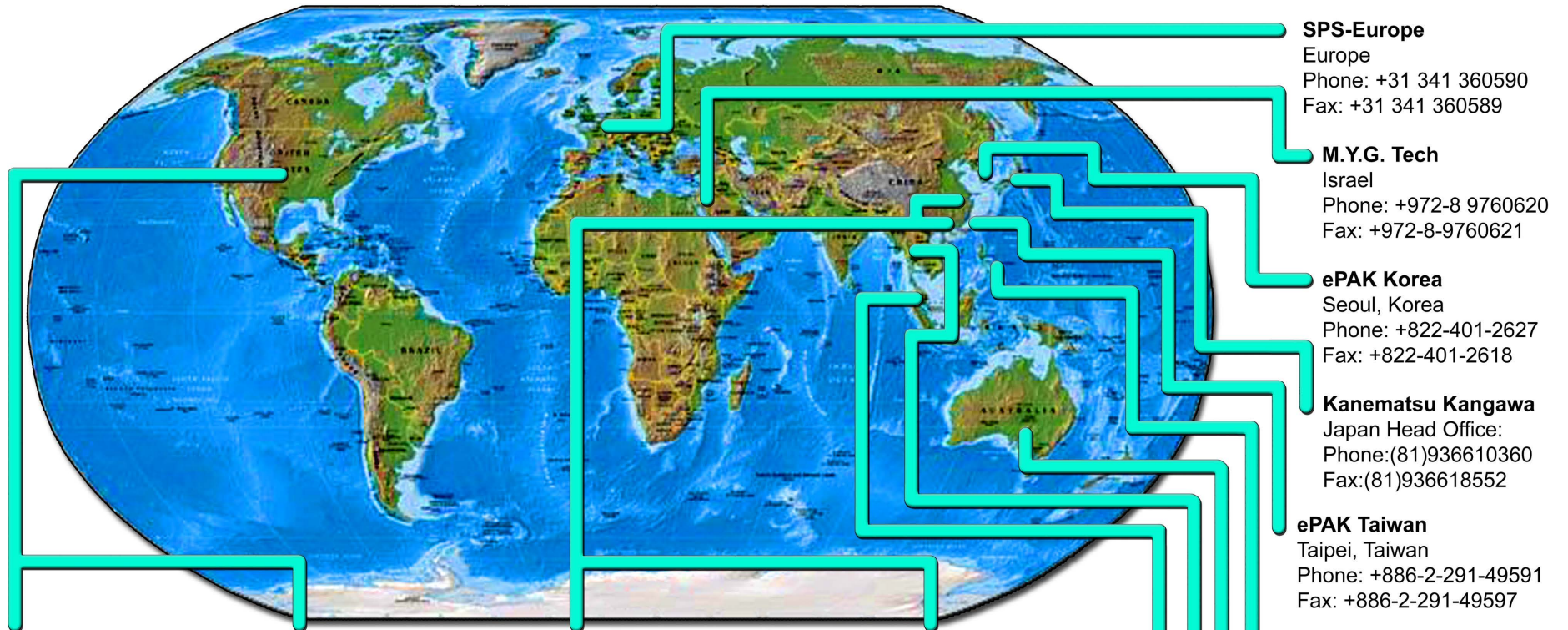
Product info

Substrate Size	ePAK Description	Max Substrates per Shipper	ePAK Order Code
170x1.5	eGBX-170x1.5-X	1	eWB0162-x
160x1.65	eGBX-160X1.65-20-X	20	eWB0163-x
180x1.65	eGBX-180X1.65-20-X	20	eWB0165-x

Material Code info for adapter plates ONLY(-x in P/N):

Material	Code	SR
PS	eP-28-BLK	n/a
ABS	eM-73-x	n/a

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