



SPECIALIZED
HANDLING PRODUCTS



Overview

Entegris' specialized handling products for 125 mm and 100 mm wafer handling include shipping boxes, wafer carriers, storage boxes, handles and other accessories. Entegris continues to offer select specialized carriers and accessories that you have come to rely on for processing wafers smaller than 100 mm, LCDs and other small devices. These products include miscellaneous device carriers, handles and labware. Extended lead times and minimum order quantities (MOQs) apply. For more information contact Entegris Customer Service at +1 952-556-4181 or visit www.entegris.com.

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NOTE: STAT-PRO material refers to Entegris' proprietary material blends used in Entegris products. For specific material descriptions corresponding to the STAT-PRO number shown, please see page 37.

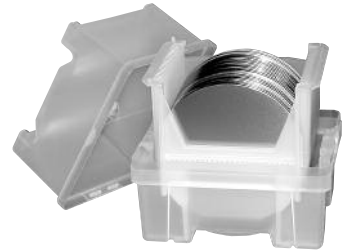
125 mm (5") Wafer Handling

Entegris offers a complete line of products for handling your 125 mm wafers including wafer shipping boxes and carriers, storage boxes and other accessories.

Multiple Wafer Shipping Boxes

Ultrapak® Series

- Individual horizontal cantilever springs limit wafer rotation to reduce particle contamination and also secure the wafers in the cassette to safeguard against breakage.
- Ultrapure polypropylene materials provide a clean shipping environment and assure low levels of condensable inorganics.
- Horizontal and vertical robotic pickup flanges on the cassette allow convenient handling.
- Center notch track alignment and “H” bar ensure accurate equipment interoperability both vertically and horizontally.
- Assembly overall size: 161 mm × 177 mm × 160 mm (6.4" × 7.0" × 6.3")
- Cassette:
D1: 14.53 mm (0.57")
Pitch: 4.76 mm (0.19")
Overall size: 144 mm × 153 mm × 146 mm (5.7" × 6.0" × 5.8")
- Extended lead times and minimum order quantities apply



Ordering Information

Description	Material	Part Number
Assembly, shrink-wrapped	High-purity polypropylene	H9125-0028
Assembly, cleaned	High-purity polypropylene	H9150-0029

Single Wafer Shippers

H93 Series

- Holds one wafer facedown contacting only the wafer's edges
- Contains four inserted cushions to retain wafer and minimize particle generation
- Tweezer slots on shipper bottom ease wafer removal
- Stackable for efficient use of storage space
- Large area on lid provides space for labeling
- Pin-in-socket hinge allows shipper to be opened completely without tipping backwards
- Polypropylene replacement cushions available to retrofit existing packages
- Clear polycarbonate material protects wafer and allows visual inspection without opening
- Extended lead times and minimum order quantities apply



Ordering Information

Overall Size	Description	Material	Part Number
152 mm × 135 mm × 20.3 mm (6.0" × 5.3" × 0.80")	Shipper	Clear polycarbonate	H93-50-101-1116
	Replacement cushions, package of 100	Polypropylene	H93-100A

H22 Series

- Conical pocket holds one wafer facedown contacting only the wafer's edges
- Spring retains wafer and minimizes particle generation
- Stackable for efficient use of storage space
- Loose or lock stacking, either tray on tray or cover on tray
- Convenient screw on covers
- Large area on cover provides space for labeling
- Extended lead times and minimum order quantities apply



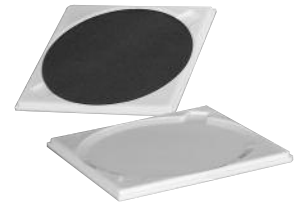
Ordering Information

Description	Material	Part Number
Tray	Natural polypropylene	H22-50-0615
Cover	Natural polypropylene	H22-501-0615
Spring	Natural polypropylene	H22-502-0615
Tray	STAT-PRO 150	H22-50-62C02
Cover	STAT-PRO 150	H22-501-62C02
Spring	STAT-PRO 150	H22-502-62C02

Single Wafer Trays

H20 Series

- For internal handling of single wafers
- Conical pocket holds one wafer face-down contacting only the wafer's edges
- Tweezer slots on tray bottom ease wafer removal
- Stackable for efficient use of storage space, either tray on tray or cover on tray
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



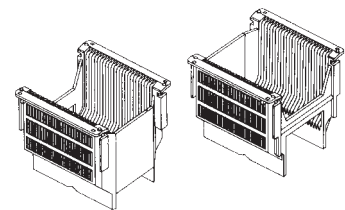
Ordering Information

Overall Size	Description	Material	Part Number
140 mm sq. (5.5")	Tray	Natural ABS	H20-4000-01-1415

Wafer Carriers

194 Series*

- Optimum performance for automated equipment
- Open sidewall style
- "H" bar equipment interface
- Locating track notches at the center of the 13th pocket
- Pins and holes on the top rail
- Capacity: 25
- D1 dimension: 14.53 mm (0.57")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- Available materials: Natural PFA, STAT-PRO 100, blue polypropylene
- Overall size: 143 mm × 152 mm × 146 mm (5.7" × 6.0" × 5.8")
- Extended lead times and minimum order quantities may apply
- See page 5 for ordering information



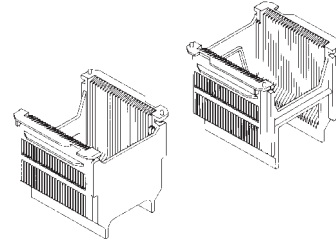
A194-50MB

*Significant dimensional differences may exist between different designs and materials within the same wafer carrier series. Please contact Entegris Customer Service at +1 952-556-4181 for detailed information on specific products.

125 mm (5") Wafer Handling (continued)

182 Series*

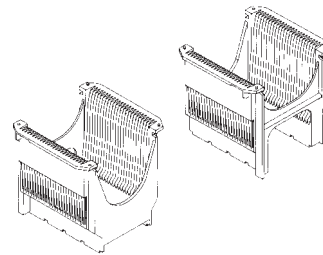
- Open sidewall style with wraparound wash slots
- "H" bar equipment interface
- 26th slot for identification tag
- Capacity: 25
- D1 dimension: 14.53 mm (0.57")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- Available materials: Natural PFA, STAT-PRO 1000, STAT-PRO 100, blue polypropylene
- Overall size: 143 mm × 152 mm × 146 mm (5.7" × 6.0" × 5.8")
- Extended lead times and minimum order quantities may apply
- See page 5 for ordering information



A182-50MB

72 Series*

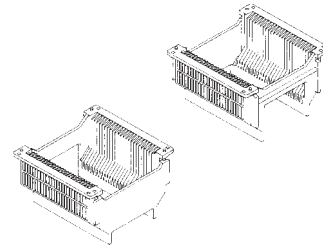
- Original linear wafer carrier
- Wash openings in sidewall
- "H" bar equipment interface
- Pins and holes on the top rail
- Capacity: 25
- D1 dimension: 14.00 mm (0.55")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- Available materials: Natural PFA, STAT-PRO 1000, STAT-PRO 100, blue polypropylene
- Overall size: 142 mm × 152 mm × 146 mm (5.6" × 6.0" × 5.8")
- Extended lead times and minimum order quantities may apply
- See page 5 for ordering information



A72-50M

190 Series*

- Optimum performance in centrifugal processing applications
- Low contour, open flow sidewall style
- "H" bar equipment interface
- Pins and holes on the top rail
- Capacity: 25
- D1 dimension: 14.53 mm (0.57")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.40 mm (0.06")
- Available material: Natural PFA
- Overall dimensions:
A190-50M-0215: 143 mm × 152 mm × 95 mm (5.7" × 6.0" × 3.8")
A190-50MHJ-0215: 142 mm × 141 mm × 95 mm (5.6" × 5.6" × 3.7")
- Extended lead times and minimum order quantities may apply
- See page 5 for ordering information



A190-50M

*Significant dimensional differences may exist between different designs and materials within the same wafer carrier series. Please contact Entegris Customer Service at +1 952-556-4181 for detailed information on specific products.

Ordering Information*

End Wall Configuration	"H" Bar End Flanges	Compatible Boxes	Material	Part Number
Solid, flanges	Yes	E89, E93	Natural PFA	A194-50MB-0215
Solid, flanges	Yes	E89, E93	STAT-PRO 100	PA194-50MB-61C02
Solid, flanges	Yes	E89, E93	Blue polypropylene	PA194-50MB-0603
Solid	No	E89, E93	Natural PFA	A182-50M-0215
Solid, flanges	No	E89, E93	Natural PFA	A182-50MB-0215
Solid, handle, flanges	No	E89, E93	Natural PFA	A182-50MBH-0215
Window, flanges	No	E89, E93	Natural PFA	A182-50MC-0215
"U" shape, flanges	Yes	E89, E93	Natural PFA	A182-50MU-0215
"U" shape	No	E89, E93	STAT-PRO 100	PA182-50M-61C02
Solid, flanges	No	E89, E93	STAT-PRO 100	PA182-50MB-61C02
"U" shape	No	E89, E93	Blue polypropylene	PA182-50M-0603
Solid, flanges	No	E89, E93	Blue polypropylene	PA182-50MB-0603
Window, flanges	No	E89, E93	Blue polypropylene	PA182-50MC-0603
"U" shape	No	E89, E93	Natural PFA	A72-50M-0215
"U" shape	No	E89, E93	STAT-PRO 100	PA72-50M-61C02
"U" shape	No	E89, E93	Blue polypropylene	PA72-50M-0603
Solid, flanges	No	—	Natural PFA	A190-50M-0215

*Significant dimensional differences may exist between different designs and materials within the same wafer carrier series. Please contact Entegris Customer Service at +1 952-556-4181 for detailed information on specific products.

125 mm (5") Wafer Handling (continued)

Storage Boxes

E89 Series

- One snap latch or one swing pin latch
- Pin and socket hinges
- Stackable
- Single carrier capacity
- Optional wafer cushion
- Compatible carriers: 194 series, 182 series, "M" style 72 series
- Available materials: STAT-PRO 100, blue polypropylene
- Overall size: 193 mm × 180 mm × 165 mm (7.6" × 7.1" × 6.5")
- Extended lead times and minimum order quantities may apply
- See below for ordering information



E89-102

E93 Series

- Two snap latches, one swing pin latch or three swing pin latches
- Pin and socket hinges
- Stackable
- Two carrier capacity
- Optional wafer cushion
- Compatible carriers: 194 series, 182 series, "M" style 72 series
- Available materials: STAT-PRO 100, blue polypropylene
- Overall size: 148 mm × 180 mm × 165 mm (7.8" × 13" × 6.5")
- Extended lead times and minimum order quantities may apply
- See below for ordering information



E93-102

Ordering Information

Latch	Optional Cushion	Optional Envelopes	Material	Part Number
Single snap	E95-1-0815	E96-2-1613 E96-2P-21A15	STAT-PRO 100	E89-101-61C02
Single snap	E95-1-0815	E96-2-1613 E96-2P-21A15	Blue polypropylene	E89-101-0603
Single swing pin	E95-1-0815	E96-2-1613 E96-2P-21A15	STAT-PRO 100	E89-102-61C02
Single swing pin	E95-1-0815	E96-2-1613 E96-2P-21A15	Blue polypropylene	E89-102-0603
Two snap	E95-1-0815	E96-4-1613 E96-4P-21A15	STAT-PRO 100	E93-101-61C02
Two snap	E95-1-0815	E96-4-1613 E96-4P-21A15	Blue polypropylene	E93-101-0603
Single swing pin	E95-1-0815	E96-4-1613 E96-4P-21A15	STAT-PRO 100	E93-102-61C02
Single swing pin	E95-1-0815	E96-4-1613 E96-4P-21A15	Blue polypropylene	E93-102-0603
Three swing pin	E95-1-0815	E96-4-1613 E96-4P-21A15	Blue polypropylene	E93-103-0603
Three swing pin	E95-1-0815	E96-4-1613 E96-4P-21A15	STAT-PRO 100	E93-103-61C02

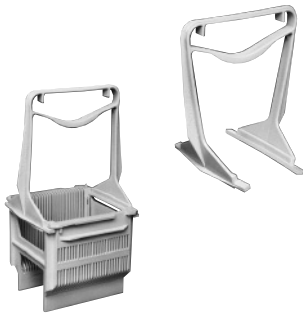
Accessories

Wafer Carrier Handles

- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

Ordering Information

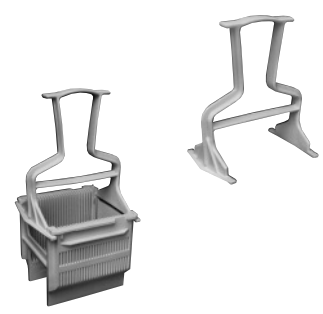
Handle Style	Description	Compatible Wafer Carriers	Overall Size	Material	Part Number
Squeeze	Attaches to the notches on both end walls of carrier	All "M" style 182 series, 194 series, 72 series, 190 series	163 mm × 140 mm × 183 mm (6.4" × 5.5" × 7.2")	Natural PFA Blue polypropylene	A72-50-03-0215 PA72-50-03-0603
Squeeze with lock bar	Attaches to notches on both end walls of carrier	All "M" style 182 series, 194 series, 72 series	165 mm × 130 mm × 165 mm (6.5" × 5.1" × 6.5")	Natural PFA	A040-101-0215
Squeeze with support bar	Attaches to the notches on both end walls of carrier	All "M" style 182 series, 194 series, 72 series	165 mm × 152 mm × 203 mm (6.5" × 6.0" × 8.0")	Natural PFA	A047-0215
Slingshot	Slides onto the top flanges of carrier	All "M" style 182 series, 194 series	15 mm × 170 mm × 246 mm (0.6" × 6.7" × 9.7")	Natural PFA	A72-50-04B-0215
Slingshot	Slides onto the top flanges of carrier	All 72 series	15 mm × 170 mm × 246 mm (0.6" × 6.7" × 9.7")	Natural PFA	A72-50-04-0215
End load	Attaches to the flanges on the end wall of the carrier, allowing handling of carrier from end rather than over the top	All "M" style 182 series, 194 series	208 mm × 150 mm × 46 mm (8.2" × 5.9" × 1.8")	Natural PFA	A054-0215
Platform	Holds two carriers during processing	All 182 series, 194 series, 72 series, 190 series	320 mm × 154 mm × 356 mm (12.6" × 6.1" × 14.0")	Natural PFA	Y456-0100



A72-50-03



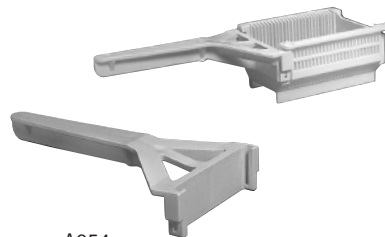
A040-101



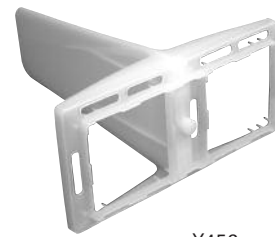
A047



A72-50-04, A72-50-04B



A054

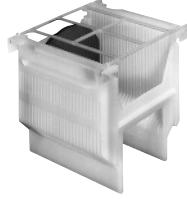


Y456

125 mm (5") Wafer Handling (continued)

Wafer Carrier Wafer Retainer

- Secures wafers in carrier
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



Ordering Information

Overall Size (L × W × H)	Compatible Carriers	Material	Part Number
135 mm × 165 mm × 18 mm (5.3" × 6.5" × 0.7")	All 125 mm	Natural PFA	A72-50-02-0215

Storage Box Cushions

- Snap inside box covers to provide added wafer security
- Extended lead times and minimum order quantities apply

Ordering Information

Compatible Storage Boxes	Material	Part Number
E89 series E93 series	Low-density polyethylene	E95-0815

Storage Box Traveler Envelopes

- Flexible envelopes snap onto covers
- Extended lead times and minimum order quantities apply

Ordering Information

Compatible Storage Boxes	Material	Part Number
E89 series	Transparent PVC	E96-2-1613 flat
	Antistatic PVC	E96-2P-21A15 pleated
E93 series	Transparent PVC	E96-4-1613 flat
	Antistatic PVC	E96-4P-21A15 pleated

100 mm (4") Wafer Handling

Entegris offers a complete line of products for handling your 100 mm wafers including wafer shipping boxes and carriers, storage boxes and other accessories.

Multiple Wafer Shipping Boxes

Ultrapak Series

- Individual horizontal cantilever springs limit wafer rotation to reduce particle contamination and also secure the wafers in the cassette to safeguard against breakage.
- Ultrapure polypropylene materials provide a clean shipping environment and assure low levels of condensable inorganics.
- Horizontal and vertical robotic pickup flanges on the cassette allow convenient handling.
- Center notch track alignment and "H" bar ensure accurate equipment interoperability both vertically and horizontally.
- Assembly overall size: 163 mm × 146 mm × 120 mm (6.4" × 5.8" × 4.7")
- Cassette:
D1: 14.53 mm (0.57")
Pitch: 4.76 mm (0.19")
Overall size: 143 mm × 126 mm × 108 mm (5.6" × 5.0" × 4.3")
- Extended lead times and minimum order quantities apply



Ordering Information

Description	Material	Part Number
Assembly, shrink-wrapped	High-purity polypropylene	H9100-0041
Assembly, cleaned	High-purity polypropylene	H9150-0042

Single Wafer Shippers

H93 Series

- Holds one wafer facedown contacting only the wafer's edges
- Contains four inserted cushions to retain wafer and minimize particle generation
- Tweezer slots on shipper bottom ease wafer removal
- Stackable for efficient use of storage space
- Large area on lid provides space for labeling
- Pin-in-socket hinge allows shipper to be opened completely without tipping backwards
- Polypropylene replacement cushions available to retrofit existing packages
- Clear polycarbonate material protects wafer and allows visual inspection without opening
- Extended lead times and minimum order quantities apply



Ordering Information

Overall Size	Description	Material	Part Number
127 mm × 112 mm × 20.3 mm (5.0" × 4.4" × 0.80")	Shipper	Clear polycarbonate	H93-40-101-1116
	Replacement cushions, package of 100	Polypropylene	H93-100A

100 mm (4") Wafer Handling (continued)

H22 Series

- Conical pocket holds one wafer facedown contacting only the wafer's edges
- Spring retains wafer and minimizes particle generation
- Stackable for efficient use of storage space
- Loose or lock stacking, either tray on tray or cover on tray
- Convenient screw on covers
- Large area on cover provides space for labeling
- Extended lead times and minimum order quantities apply



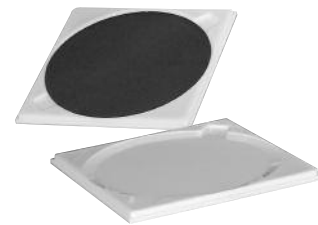
Ordering Information

Description	Material	Part Number
Tray	Natural polypropylene	H22-40-0615
Cover	Natural polypropylene	H22-401-0615
Spring	Natural polypropylene	H22-402-0615
Spring	Low-density polypropylene	H22-402-0815
Spring, low force	Natural polypropylene	H22-40A2-0615
Tray	STAT-PRO 150	H22-40-62C02
Cover	STAT-PRO 150	H22-401-62C02
Spring	STAT-PRO 150	H22-402-62C02

Single Wafer Trays

H20 Series

- For internal handling of single wafers
- Conical pocket holds one wafer face-down contacting only the wafer's edges
- Tweezer slots on tray bottom ease wafer removal
- Stackable for efficient use of storage space, either tray on tray or cover on tray
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



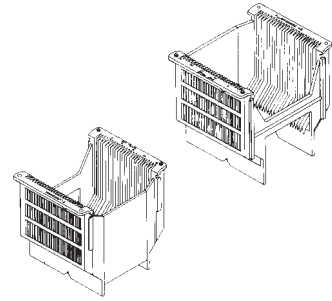
Ordering Information

Overall Size	Description	Material	Part Number
114 mm sq. (4.5")	Tray	Natural ABS	H20-3000-01-1415
	Cover	Clear styrene	H20-3000-02-1216

Wafer Carriers

194 Series*

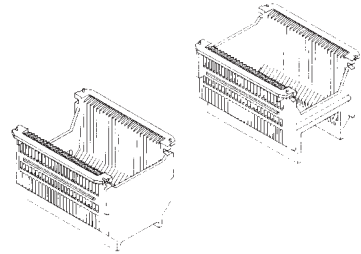
- Optimum performance for automated equipment
- Open sidewall style
- “H” bar equipment interface
- Locating track notches at center of the 13th pocket
- Pins and holes on top rail
- Capacity: 25
- D1 dimension: 14.53 mm (0.57 $\bar{\text{c}}$)
- Pocket spacing: 4.76 mm (0.19 $\bar{\text{c}}$)
- Pocket flat: 1.52 mm (0.06 $\bar{\text{c}}$)
- Available materials: STAT-PRO 100, blue polypropylene
- Overall size: 143 mm \times 125 mm \times 108 mm (5.7 $\bar{\text{c}}$ \times 4.9 $\bar{\text{c}}$ \times 4.3 $\bar{\text{c}}$)
- Extended lead times and minimum order quantities may apply
- See page 12 for ordering information



PA194-40M

182 Series*

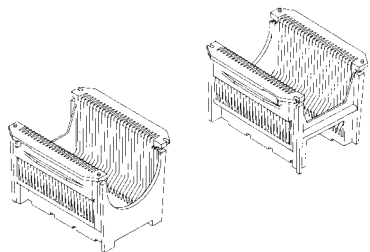
- Open sidewall style with wraparound wash slots
- “H” bar equipment interface
- Protective side wall design guards against damage from operator contact
- Capacity: 25
- D1 dimension: 14.53 mm (0.57 $\bar{\text{c}}$)
- Pocket spacing: 4.76 mm (0.19 $\bar{\text{c}}$)
- Pocket flat: 1.52 mm (0.06 $\bar{\text{c}}$)
- Available materials: Natural PFA, STAT-PRO 1000, STAT-PRO 100, blue polypropylene
- Overall size: 143 mm \times 126 mm \times 108 mm (5.7 $\bar{\text{c}}$ \times 4.9 $\bar{\text{c}}$ \times 4.3 $\bar{\text{c}}$)
- Extended lead times and minimum order quantities may apply
- See page 12 for ordering information



A182-39MLB

72 Series*

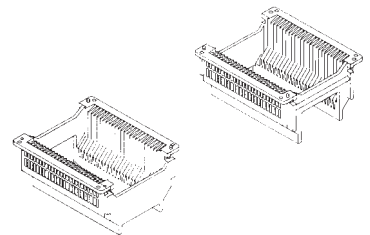
- Original linear wafer carrier
- Wash openings
- “H” bar equipment interface
- Pins and holes on top rail
- Both end walls have flanges that extend to the bottom of carrier
- Capacity: 25
- D1 dimension: 13.97 mm (0.55 $\bar{\text{c}}$)
- Pocket spacing: 4.76 mm (0.19 $\bar{\text{c}}$)
- Pocket flat: 1.52 mm (0.06 $\bar{\text{c}}$)
- Available materials: Natural PFA, STAT-PRO 100, blue polypropylene
- Overall size: 142 mm \times 126 mm \times 114 mm (5.6 $\bar{\text{c}}$ \times 4.9 $\bar{\text{c}}$ \times 4.5 $\bar{\text{c}}$)
- Extended lead times and minimum order quantities may apply
- See page 12 for ordering information



A72-40MB

190 Series*

- Optimum performance in centrifugal processing applications
- Low contour, open flow sidewall style
- “H” bar equipment interface
- Pins and holes on top rail
- Capacity: 25
- D1 dimension: 14.53 mm (0.57 $\bar{\text{c}}$)
- Pocket spacing: 4.76 mm (0.19 $\bar{\text{c}}$)
- Pocket flat: 1.40 mm (0.06 $\bar{\text{c}}$)
- Available materials: Natural PFA
- Overall size: 143 mm \times 126 mm \times 76 mm (5.6 $\bar{\text{c}}$ \times 4.9 $\bar{\text{c}}$ \times 3.0 $\bar{\text{c}}$)
- Extended lead times and minimum order quantities may apply
- See page 12 for ordering information



A190-40M

*Significant dimensional differences may exist between different designs and materials within the same wafer carrier series. Please contact Entegris Customer Service at +1 952-556-4181 for detailed information on specific products.

100 mm (4") Wafer Handling (continued)

Ordering Information*

End Wall Configuration	"H" Bar End Flanges	Compatible Boxes	Material	Part Number
Solid, flanges	No	–	STAT-PRO 100	PA194-40M-61C02
Solid, flanges	No	–	Blue polypropylene	PA194-40M-0603
Solid	No	E97, E88	Natural PFA	A182-39M-0215
Solid, flanges	No	E97, E88	Natural PFA	A182-39MLB-0215
Window, flanges	No	E97, E88	Natural PFA	A182-39MLC-0215
"U" shaped, flanges	Yes	E97, E88	Natural PFA	A182-39MU-0215
"U" shaped	No	E97, E88	STAT-PRO 100	PA182-39M-61C02
"U" shaped	No	E97, E88	Blue polypropylene	PA182-39M-0603
Solid, flanges	No	E97, E88	STAT-PRO 100	PA182-39MLB-61C02
Solid, flanges	No	E97, E88	Blue polypropylene	PA182-39MLB-0603
Window, flanges	No	E97, E88	STAT-PRO 100	PA182-39MLC-61C02
Window, flanges	No	E97, E88	Blue polypropylene	PA182-39MLC-0603
"U" shaped, flanges	Yes	E97, E88	Natural PFA	A72-40MB-0215
"U" shaped, flanges	Yes	E97, E88	STAT-PRO 100	PA72-40MB-61C02
"U" shaped, flanges	Yes	E97, E88	Blue polypropylene	PA72-40MB-0603
Solid, flanges	No	–	Natural PFA	A190-40M-0215

Storage Boxes

E97 Series

- Pin and socket hinges
- Single snap latch
- Stackable
- Optional wafer cushion
- Single carrier capacity
- Compatible carriers: 182 series, "M" style 72 series
- Available materials: STAT-PRO 100, blue polypropylene
- Overall size:
E97-101: 155 mm × 188 mm × 130 mm (6.1" × 7.4" × 5.1")
E97-102: 155 mm × 193 mm × 130 mm (6.1" × 7.6" × 5.1")
- Extended lead times and minimum order quantities apply
- See page 13 for ordering information



E97-102

*Significant dimensional differences may exist between different designs and materials within the same wafer carrier series. Please contact Entegris Customer Service at +1 952-556-4181 for detailed information on specific products.

E88 Series

- Pin and socket hinges
- Two snap latches or one swing pin latch
- Stackable
- Optional wafer cushion
- Two carrier capacity
- Compatible carriers: 182 series, “M” style 72 series
- Available materials: STAT-PRO 100, blue polypropylene
- Overall dimensions:
E88-101: 282 mm × 198 mm × 132 mm (11.1” × 7.8” × 5.2”)
E88-102: 282 mm × 203 mm × 132 mm (11.1” × 8.0” × 5.2”)
- Extended lead times and minimum order quantities apply
- See below for ordering information



E88-101

Ordering Information

Latch	Optional Envelopes	Optional Cushion	Material	Part Number
Single snap	E96-6-1613 E96-6P-21A15	E95-4-0815	STAT-PRO 100	E97-101-61C02
Single snap	E96-6-1613 E96-6P-21A15	E95-4-0815	Blue polypropylene	E97-101-0603
Single swing pin	E96-6-1613 E96-6P-21A15	E95-4-0815	STAT-PRO 100	E97-102-61C02
Single swing pin	E96-6-1613 E96-6P-21A15	E95-4-0815	Blue polypropylene	E97-102-0603
Two snap	E96-1-1613 E96-1P-21A15	E95-3-0815	STAT-PRO 100	E88-101-61C02
Two snap	E96-1-1613 E96-1P-21A15	E95-3-0815	Blue polypropylene	E88-101-0603
Single swing pin	E96-1-1613 E96-1P-21A15	E95-3-0815	STAT-PRO 100	E88-102-61C02
Single swing pin	E96-1-1613 E96-1P-21A15	E95-3-0815	Blue polypropylene	E88-102-0603

100 mm (4") Wafer Handling (continued)

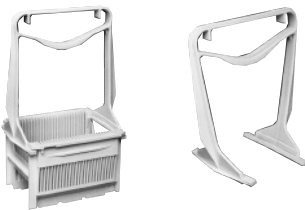
Accessories

Wafer Carrier Handles

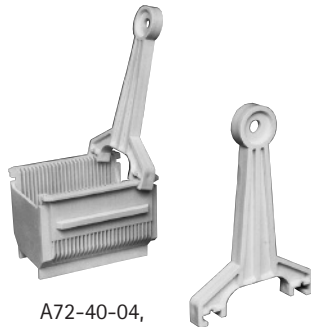
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

Ordering Information

Handle Style	Description	Compatible Wafer Carriers	Overall Size	Material	Part Number
Squeeze	Attaches to notches on both end walls of carrier	All "M" style	165 mm × 117 mm × 188 mm (6.5" × 4.6" × 7.2")	Natural PFA Blue polypropylene	A72-40-03-0215 PA72-40-03-0603
Squeeze	Attaches to notches on both end walls of carrier	All "M" style	165 mm × 114 mm × 119 mm (6.5" × 4.5" × 4.7")	Natural PFA	A72-40-06-0215
Squeeze with lock bar	Attaches to notches on both end walls of carrier	All "M" style except A190-40M	165 mm × 107 mm × 165 mm (6.5" × 4.2" × 6.5")	Natural PFA	A040-102-0215
Squeeze with support bar	Attaches to notches on both end walls of carrier	All "M" style except A190-40M	165 mm × 114 mm × 203 mm (6.5" × 4.5" × 8.0")	Natural PFA	A048-0215
Slingshot	Slides onto the top flanges of the carrier	182 series except "MLB" and "MLC"	15 mm × 137 mm × 203 mm (0.6" × 5.4" × 8.0")	Natural PFA	A72-40-04-0215
Slingshot	Slides onto the top flanges of the carrier	A182-39MLB, A182-39MLC, A182-39MU, A72-40MB	15 mm × 142 mm × 203 mm (0.6" × 5.6" × 8.0")	Natural PFA	A72-40-04B-0215
End load	Attaches to flanges on the end wall of carrier, allowing handling of carrier from end rather than over the top	A190-40M, A182-39MLB, A182-39MLC	208 mm × 122 mm × 46 mm (8.2" × 4.8" × 1.8")	Natural PFA	A053-0215
Platform	Holds two carriers during processing	All 182 series, 72 series, 190 series	320 mm × 154 mm × 356 mm (12.6" × 6.1" × 14.0")	Natural PFA	Y456-0100



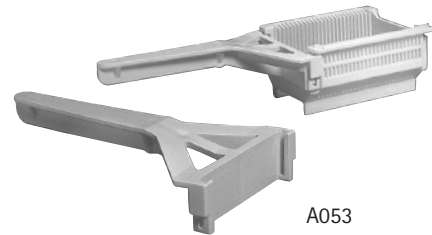
A72-40-03, A72-40-06

A72-40-04,
A72-40-04B

A040-102



A048



A053

Wafer Carrier Wafer Retainer

- Secures wafers in carrier
- Compatible handle: A72-40-03
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



Ordering Information

Overall Size (L × W × H)	Compatible Carriers	Material	Part Number
102 mm × 135 mm × 15 mm (4.0" × 5.3" × 0.6")	A182-39M, PA182-39M, A72-40MB, PA72-40MB	PFA	A72-40M-02-0215

Storage Box Cushions

- Snap inside box covers to provide added wafer security
- Compatible with E97 series and E88 series storage boxes
- Extended lead times and minimum order quantities apply

Ordering Information

Compatible Storage Boxes	Material	Part Number
E97 series	Low-density polyethylene	E95-4-0815
E88 series	Low-density polyethylene	E95-3-0815

Storage Box Traveler Envelopes

- Flexible envelopes snap onto covers
- Extended lead times and minimum order quantities apply

Ordering Information

Compatible Storage Boxes	Material	Part Number
E97 series	Transparent PVC	E96-6-1613 flat
	Antistatic PVC	E96-6P-21A15 pleated
E88 series	Transparent PVC	E96-1-1613 flat
	Antistatic PVC	E96-1P-21A15 pleated

76.2 mm (3") Wafer Handling

Multiple Wafer Shipping Boxes

H6630 Series

- Full-depth wafer protection
- Positive cover alignment
- Individual wafer support springs
- Stackable
- Assembly overall size: 160 mm × 84 mm × 96 mm (6.3" × 3.3" × 3.8")
- Pitch: 4.76 mm (0.19")
- Extended lead times and minimum order quantities apply

Ordering Information

Description	Material	Part Number
Assembly, shrink-wrapped	Natural polypropylene	H6630-0009
Assembly, low-silicon, shrink-wrapped	Low-silicon polypropylene	H6630-0011
Assembly, cleaned	Natural polypropylene	H6630-0016



Single Wafer Shippers

H22 Series

- Available for 90 mm, 3.25" and 3" wafers
- Conical pocket holds one wafer face-down contacting only the wafer's edges
- Spring retains wafer and minimizes particle generation
- Stackable for efficient use of storage space
- Loose or lock stacking, either tray on tray or cover on tray
- Convenient screw on covers
- Large area on cover provides space for labeling
- Extended lead times and minimum order quantities apply

Ordering Information

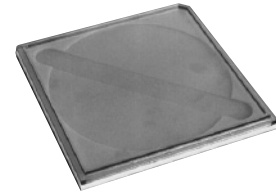
Wafer Size	Description	Material	Part Number
90 mm	Tray	Natural polypropylene	H22-35-0615
	Cover	Natural polypropylene	H22-351-0615
	Spring	Natural polypropylene	H22-352-0615
3.25"	Tray	Natural polypropylene	H22-32-0615
	Cover	Natural polypropylene	H22-321-0615
	Tray	STAT-PRO 150	H22-32-62C02
	Cover	STAT-PRO 150	H22-321-62C02
3"	Tray	Natural polypropylene	H22-30-0615
	Cover	Natural polypropylene	H22-301-0615
	Spring, low force	Natural polypropylene	H22-302A-0615
	Spring	Low-density polyethylene	H22-302-0815
	Tray	STAT-PRO 150	H22-30-62C02
	Cover	STAT-PRO 150	H22-301-62C02
	Spring	STAT-PRO 150	H22-302A-62C02



Single Wafer Trays

H20 Series

- For internal handling of single wafers
- Conical pocket holds one wafer face-down contacting only the wafer's edges
- Tweezer slots on tray bottom ease wafer removal
- Stackable for efficient use of storage space, either tray on tray or cover on tray
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



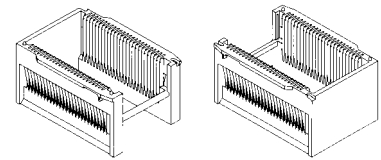
Ordering Information

Overall Size	Description	Material	Part Number
91 mm sq. (3.6")	Tray	Natural ABS	H20-2000-01-1415
	Cover	Amber styrene	H20-2000-02-1201

Wafer Carriers

A72, PA72

- Round crossbar
- Wash openings
- Straight sidewalls
- Pins and holes on the top rail
- Capacity: 25
- D1 dimension: 14.0 mm (0.55")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- Overall size: 142 mm × 94 mm × 83 mm (5.6" × 3.7" × 3.3")
- Compatible boxes: E52-101, E38-101
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



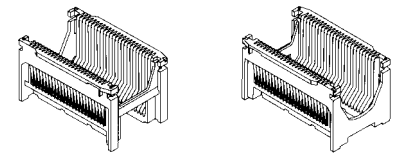
A72-30M

Ordering Information

End Wall Style	Material	Part Number
Solid	PFA	A72-30M-0215
"U" shaped	Blue polypropylene	PA72-30M-0603

A82M, PA82M

- "H" bar equipment interface
- Flanges on the "H" bar end
- Wash openings
- Pins and holes on the top rail
- Capacity: 25
- D1 dimension: 14.0 mm (0.55")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- Overall size: 142 mm × 94 mm × 83 mm (5.6" × 3.7" × 3.3")
- Compatible boxes: E52-101, E38-101
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



A82M

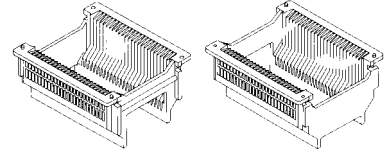
Ordering Information

Material	Part Number
PFA	A82M-0215
Blue polypropylene	PA82M-0603
STAT-PRO 100	PA82M-61C02

76.2 mm (3") Wafer Handling (continued)

A190

- Optimum performance in centrifugal processing applications
- Low contour open flow sidewall style
- "H" bar equipment interface
- Flanges on the end wall and "H" bar end
- Solid end wall
- Pins and holes on the top rail
- D1 dimensions: 14.0 mm (0.55")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.27 mm (0.05")
- Overall size: 142 mm × 94 mm × 60 mm (5.6" × 3.7" × 2.4")
- Compatible box: E52-101
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

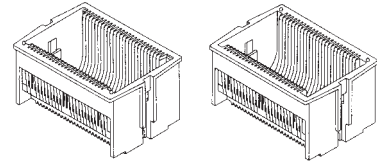


Ordering Information

Material	Part Number
PFA	A190-30M-0215

PA50-30

- Immersion style
- Solid end wall
- Wash openings
- Capacity: 25
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- Overall size: 155 mm × 94 mm × 83 mm (6.1" × 3.7" × 3.3")
- Compatible box: E52-101
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



Ordering Information

Material	Part Number
Blue polypropylene	PA50-30-0603

Storage Boxes

E52-101

- Angled box bottom
- Pin and socket hinges
- Three swing pin latches
- Stackable
- Two carrier capacity
- Optional cushion and envelope available
- Compatible carriers: All 3" wafer carriers
- Overall size: 203 mm × 236 mm × 114 mm (8.0" × 9.3" × 4.5")
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



E52-101

Ordering Information

Description	Material	Part Number
Storage box	Blue polypropylene	E52-101-0603
Storage box	STAT-PRO 100	E52-101-61C02
Envelope	Antistatic PVC	E96-2P-21A15
Envelope	PVC	E96-2-1613
Cushion	Low-density polyethylene	E95-7-0815

E38-101

- End loading
- Friction snap-in cover
- Card slot on top
- One carrier capacity
- Compatible carriers: A82M, A72-30M
- Overall size: 157 mm × 102 mm × 102 mm (6.2" × 4.0" × 4.0")
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



Ordering Information

Material	Part Number
high-density polypropylene	E38-101-0715

Accessories

Wafer Carrier Handles

- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



A82-03



A048B

Ordering Information

Handle Style	Description	Compatible Wafer Carriers	Overall Size	Material	Part Number
Squeeze	Attaches to notches on both end walls of carrier	A82M, PA82M	165 mm × 91 mm × 157 mm (6.5" × 3.6" × 6.2")	Natural PFA Blue polypropylene	A82-03-0215 PA82-03-0603
Squeeze with support bar	Attaches to notches on both end walls of carrier	Most 3" "M" style	165 mm × 91 mm × 157 mm (6.5" × 3.6" × 6.2")	Natural PFA	A048B-0215

2.5" and Smaller Wafer Handling

Multiple Wafer Shipping Boxes

H6620 Series, 2"

- Full-depth wafer protection
- Positive cover alignment
- Individual wafer support springs
- Stackable
- Assembly overall size: 160 mm × 60 mm × 67 mm (6.3" × 2.5" × 2.7")
- Pitch: 4.76 mm (0.19")
- Extended lead times and minimum order quantities apply



H6620-009

Ordering Information

Description	Material	Part Number
Assembly, shrink-wrapped	Natural polypropylene	H6620-0009
Assembly, cleaned	Natural polypropylene	H6620-0010
Assembly, low-silicon, shrink-wrapped	Low-silicon polypropylene	H6620-0011

2.5" and Smaller Wafer Handling (continued)

Single Wafer Shippers

H22 Series

- Available for 2.5", 2", 1.5" and 1" wafers
- Conical pocket holds one wafer face-down contacting only the wafer's edges
- Spring retains wafer and minimizes particle generation
- Stackable for efficient use of storage space
- Loose or lock stacking, either tray on tray or cover on tray
- Convenient screw on covers
- Large area on cover provides space for labeling
- Extended lead times and minimum order quantities apply



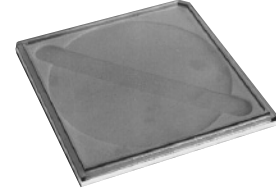
Ordering Information

Wafer Size	Description	Material	Part Number
2.5"	Tray	Natural polypropylene	H22-25-0615
	Cover	Natural polypropylene	H22-251-0615
	Spring	Natural polypropylene	H22-252-0615
	Spring	Low-density polyethylene	H22-252-0815
	Tray	STAT-PRO 150	H22-25-62C02
	Cover	STAT-PRO 150	H22-251-62C02
	Spring	STAT-PRO 150	H22-252-62C02
	2"	Tray	Natural polypropylene
Cover		Natural polypropylene	H22-201-0615
Spring, low force		Natural polypropylene	H22-202A-0615
Spring		Low-density polyethylene	H22-202-0815
Tray		STAT-PRO 150	H22-20-62C02
Cover		STAT-PRO 150	H22-201-62C02
Spring		STAT-PRO 150	H22-202A-62C02
1.5"		Tray	Natural polypropylene
	Cover	Natural polypropylene	H22-151-0615
	Spring	Natural polypropylene	H22-152-0615
	Spring	Low-density polyethylene	H22-152-0815
	Tray	STAT-PRO 150	H22-15-62C02
	Cover	STAT-PRO 150	H22-151-62C02
	Spring	STAT-PRO 150	H22-152-62C02
	1"	Tray	Natural polypropylene
Cover		Natural polypropylene	H22-101-0615
Spring		Low-density polyethylene	H22-102-0815
Tray		STAT-PRO 150	H22-10-62C02
Cover		STAT-PRO 150	H22-101-62C02

Single Wafer Trays

H20 Series

- Available for 2.25", 1.5" and 1.2" wafers
- For internal handling of single wafers
- Conical pocket holds one wafer face-down contacting only the wafer's edges
- Tweezer slots on tray bottom ease wafer removal
- Stackable for efficient use of storage space, either tray on tray or cover on tray
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



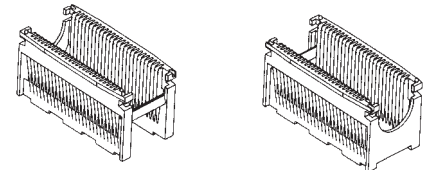
Ordering Information

Wafer Size	Overall Size	Description	Material	Part Number
2.25"	67 mm sq. (2.6")	Tray	Natural ABS	H20-520-01-1415
		Cover	Amber styrene	H20-520-02-0201
1.5"	51 mm sq. (2.0")	Tray	Natural ABS	H20-500-1415
		Cover	Natural ABS	H20-02-1415
		Cover	Clear styrene	H20-02-1216
		Cover	Amber styrene	H20-02-1201
1.2"	51 mm sq. (2.0")	Tray	Natural ABS	H20-250-1415
		Cover	Natural ABS	H20-02-1415
		Cover	Clear styrene	H20-02-1216
		Cover	Amber styrene	H20-02-1201

2.5" Wafer Carriers

A72-25M, PA72-25M

- Crossbar
- "U" shaped end wall
- Wash openings
- Capacity: 25
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.27 mm (0.05")
- D1 dimension: 14.0 mm (0.55")
- Overall size: 142 mm × 79 mm × 73 mm (5.6" × 3.1" × 2.9")
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



A72, PA72

Ordering Information

Material	Part Number
PFA	A72-25M-0215
Blue polypropylene	PA72-25M-0603

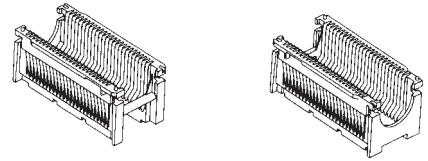
2.25" Wafer Carriers

A72-22M, PA72-22M

- Crossbar
- "U" shaped end wall
- Wash openings
- Capacity: 25
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- D1 dimension: 14.0 mm (0.55")
- Overall size: 142 mm × 73 mm × 67 mm (5.6" × 2.9" × 2.6")
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

Ordering Information

Material	Part Number
PFA	A72-22M-0215
Blue polypropylene	PA72-22M-0603



A72-22M, PA72-22M

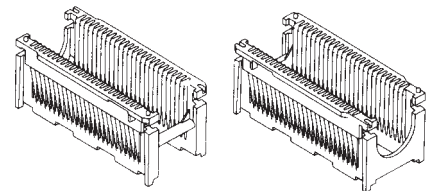
2" Wafer Carriers

A72-20M, PA72-20M

- Crossbar
- "U" shaped end wall
- Wash openings
- Capacity: 25
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.02 mm (0.04")
- D1 dimension: 14.0 mm (0.55")
- Overall size: 142 mm × 68 mm × 59 mm (5.6" × 2.7" × 2.3")
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

Ordering Information

Material	Part Number
PFA	A72-20M-0215
Blue polypropylene	PA72-20M-0603



A72-20M, PA72-20M

Storage Boxes

E04

- Textured, nonslip surface
- Liftoff cover
- Friction seal only
- Box capacity: one carrier
- Compatible carriers: 2", 2.25" and 2.5" A72 and PA72 wafer carriers
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

Ordering Information

Material	Part Number
Black high impact polystyrene	E04-1202



E04

Miscellaneous Device Carriers

Adjustable Carriers

- For rectangular devices
- Adjust to hold specific sizes
- Rails permit universal assembly to accommodate various widths
- Assembly required
- Compatible handles: A018, A027, A031, A044
- Compatible storage box: E127-101 available for AC-101 carrier only
- E127-101 two-piece storage box has transparent cover which allows easy identification of contents
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



Ordering Information

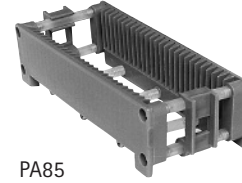
Device Size (L × W)	Pocket Flat	Capacity	Assembled Size (L × W × H)	Material	Part Number
6.4 mm to 56.2 mm (0.25" to 2.25")	—	20	102 mm × 83 mm × 36 mm (4.0" × 3.3" × 1.4")	Blue polypropylene	AC-101-0603 carrier
Holds AC-101-0603 carrier	—	1 carrier	154 mm × 136 mm × 105 mm (6.0" × 5.4" × 4.2")	Transparent PETG	E127-101-5115 storage box
38 mm to 102 mm × 76 mm (1.5" to 4.0" × 3.0")	2.3 mm (0.90")	25	155 mm × 130 mm × 56 mm (6.1" × 5.1" × 2.2")	PFA	A135-11-0215 carrier
38 mm to 102 mm × 76 mm (1.5" to 4.0" × 3.0")	2.3 mm (0.90")	25	163 mm × 206 mm × 61 mm (6.4" × 8.1" × 2.3")	Blue polypropylene	PA135-11-0603 carrier
108.0 mm to 171.0 mm × 76.0 mm (4.25" to 6.75" × 3.00")	2.3 mm (0.90")	25	155 mm × 206 mm × 56 mm (6.1" × 8.1" × 2.2")	PFA	A135-12-0215 carrier

Miscellaneous Device Carriers (continued)

Custom Carriers

Custom carriers allow you to construct a carrier to your specific requirements.

- Use where a specified size is needed
- Rails permit universal assembly to accommodate various widths
- Sold as component parts only – assembly required



PA85

Carrier Construction

Each custom carrier is constructed of two side rails held together with number of rods that have been cut to length and tapped. These side rails and rods are attached with two screws for every rod. The rods are then held together with two retaining clips. The exact number of rods and screws is dependent on the carrier series selected. You specify the rod length to fit your applications.

PA85 Series

- For square or rectangular devices
- Capacity: 25
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- Pocket depth: 25.4 mm (1.00")
- Length: 163 mm (6.4")
- Compatible handle: A031
- Compatible storage box: none
- Rod length is equal to the device length minus 10.67 mm (0.42")
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

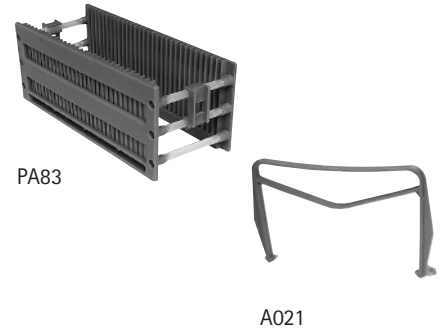
Ordering Information

Component Part	Quantity per Carrier	Material	Part Number
Individual side rail	2	Blue polypropylene PFA	PA85-01-0603 A85-01-0215
Retaining clip	2	Blue polypropylene	PA85-04-0603
Screw	14	Stainless steel	1511-034
Individual rod	7	Natural polypropylene	1112-031CR

When ordering, multiply the number of carriers desired by the quantity per carrier for each component. For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

PA83 Series

- For square or rectangular devices
- Wash openings for efficient cleaning
- Capacity: 30
- Pocket spacing: 6.35 mm (0.25")
- Pocket flat: 3.18 mm (0.13")
- Pocket depth: 69.8 mm (2.75")
- Length: 221 mm (8.7")
- A021 handle attaches to carrier end wall
- Compatible storage box: none
- Handle overall size: 241 mm × 15 mm × 267 mm (9.5" × 0.6" × 10.5")
- Rod length is equal to the device length minus 10.67 mm (0.42")
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



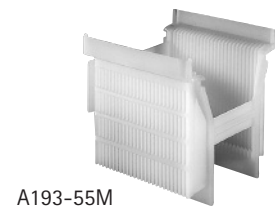
Ordering Information

Component Part	Quantity per Carrier	Material	Part Number
Individual side rail	2	Blue polypropylene STAT-PRO 100 PFA	PA83-01-0603 PA83-01-61C02 A83-01-0215
Retaining clip	2	Blue polypropylene	PA85-04-0603
Screw	18	Stainless steel	1511-034
Individual rod	9	Natural polypropylene	1112-031CR
Handle	–	ETFE	A021-031
Individual rod	7	Natural polypropylene	1112-031CR

When ordering, multiply the number of carriers desired by the quantity per carrier for each component. Please make sure your order quantity for each component meets or exceeds the minimum order quantity.

Solar Cell Carriers

- For handling solar cells or other square devices
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



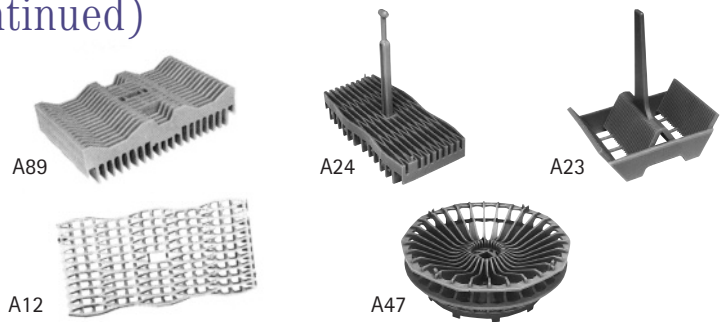
Ordering Information

Device Size (sq.)	Pocket Spacing	Pocket Flat	Capacity	Overall Size	Compatible Handles	Compatible Storage Boxes	Material	Part Number
125 mm	4.76 mm (0.19")	1.52 mm (0.06")	25	144 mm × 152 mm × 152 mm (5.7" × 6.0" × 6.0")	A72-50-03	–	PVDF	A193-55M-0515
100 mm	4.76 mm (0.19")	1.52 mm (0.06")	25	143 mm × 123 mm × 114 mm (5.6" × 4.9" × 4.5")	A72-40-03 A72-40-06 PA72-40-03	E34-102 E49-101 E46-101	PFA	A92-39M-0215

Miscellaneous Device Carriers (continued)

Wafer Baskets

- For processing and handling substrates
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



Ordering Information

Wafer Size	Capacity	Overall Size	Compatible Tanks	Compatible Handles	Notes	Material	Part Number
13 mm, 30 mm, 64mm (0.5" × 1.2" × 2.5")	52	175 mm × 112 mm × 43 mm (6.9" × 4.4" × 1.7")	E23-01	A05, A08	Pocket spacing: 71 mm (.28") for gallium arsenide wafers	PFA	A89-01-0215 basket
13 mm to 38 mm (0.5" to 1.5")	52	173 mm × 86 mm × 30 mm (6.8" × 3.4" × 1.2")	—	A05, A08	Carrier inverted serves as cover	PFA	A12-01-0215 basket
38.1 mm to 57.2 mm (1.5" to 2.25")	30	160 mm dia × 51 mm (6.3" dia × 2.0")	E14-21-01 E14-25-01	A01, A07, A029	Numbered pockets	PFA	A47-01-0215 basket
38 mm to 51 mm (1.5" to 2.0")	39	178 mm × 86 mm × 38 mm (7.0" × 3.4" × 1.5")	E23-01	A24-03	Carrier inverted serves as cover, A24-03 handle length: 191 mm (7.5")	PFA PFA	A24-01-0215 basket A24-03-0215 handle
25 mm to 51 mm (1.0" to 2.0")	50	132 mm × 89 mm × 145 mm (5.2" × 3.5" × 5.7")	—	—	Integral handle, bottom flow-through: 15.88 mm (0.63"), pocket spacing: 3.18 mm (0.13")	PFA	A23-0215 basket
19.0 mm to 51 mm (0.75" to 2.0")	20	122 mm × 89 mm × 28 mm (4.8" × 3.5" × 1.1")	—	A05, A08	Pocket width: 6.4 mm (0.25")	PFA PFA	A17-01-0215 basket A17-02-0215 cover
15.88 mm to 51 mm (0.625" to 2.0")	30	152 mm dia × 61 mm (6.0" dia × 2.4")	E14-25-01	A01, A07, A029	—	PFA PFA	A26-01-0215 basket A26-02-0215 cover
25 mm to 44.4 mm (1.0" to 1.75")	24	177 mm dia × 46 mm (4.6" dia × 1.8")	E12 E14-10-01 E22-101	A01, PA01, A07, PA07, A029, PA029	—	PFA PFA Blue polypropylene	A15-01-0215 basket A15-02-0215 cover A15-01-0603 basket
13 mm to 41 mm (0.5" to 1.6")	52	175 mm × 86 mm × 51 mm (6.9" × 3.4" × 2.0")	—	A05, A08	Full depth compartments	PFA	A22-01- 0215 basket
25 mm to 38 mm (1.0" to 1.5")	48	122 mm dia × 41 mm (4.8" dia × 1.6")	E14-10-01	A01, A07, A029	—	PFA PFA	A21-01-0215 basket A21-02-0215 cover
15.88 mm to 31.8 mm (0.625" to 1.25")	24	89 mm dia × 20 mm (3.5" dia × 0.8")	E12	A01, A07, A029	A14-01S-61C02 basket	PFA PFA	A14-01S-0215 basket A14-02S-0215 cover
13 mm to 28.58 mm (0.5" to 1.125")	52	173 mm × 86 mm × 23 mm (6.8" × 3.4" × 0.9")	—	A07, A08	Carrier inverted serves as cover	PFA	A13-01-0215 basket

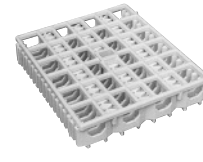


LCD Carriers

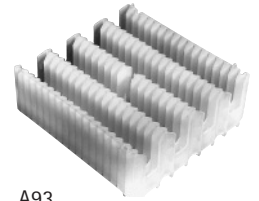
- For handling LCDs and other devices
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



A86



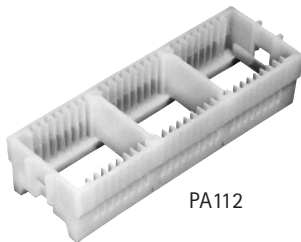
A45



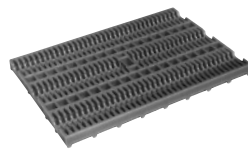
A93

Ordering Information

Pocket Length	Pocket Width	Pocket Depth	Overall Size (L x W x H)	Compatible Handles	Capacity	Notes	Material	Part Number
17.3 mm (0.68")	3.4 mm (0.13")	9.4 mm (0.37")	112 mm x 102 mm x 18 mm (4.4" x 4.0" x 0.7")	A01, PA01, A029, PA029	88	—	PFA PFA	A86-01-0215 carrier A86-02-0215 cover
23.0 mm (0.91")	4.2 mm (0.16")	13.6 mm (0.54")	112 mm x 102 mm x 18 mm (4.4" x 4.0" x 0.7")	—	72	For LCDs 14.2 mm x 21.6 mm (0.56" x 0.85"), A45-03 handle length: 165 mm (6.5"), A45-04 handle length: 254 mm (10.0")	PFA PFA PFA	A45-01B-0215 carrier A45-02-0215 cover A45-03-0215 handle
24.4 mm (0.960")	4.1 mm (0.162")	28.58 mm (1.125")	109 mm x 103 mm x 39 mm (4.3" x 4.1" x 1.5")	A45-03	72	Cover: A45-02	Blue polypropylene	A93-01-0603 carrier
32.0 mm (1.26")	2.5 mm (0.10")	27.4 mm (1.08")	159 mm x 37 mm x 35 mm (6.3" x 1.5" x 1.4")	A031	25	Wash openings Device transferable Stackable Pocket spacing: 4.76 mm (0.19")	Blue polypropylene	PA112-12-108-0603 carrier
35.6 mm (1.400")	3.2 mm (0.125")	6.9 mm (0.28")	203 mm x 142 mm x 13 mm (8.0" x 5.6" x 0.5")	PA08	106	—	Blue polypropylene Blue polypropylene	A180-01-0603 carrier A178-02-0603 cover
47.8 mm (1.88")	2.5 mm (0.10")	26.2 mm (1.03")	159 mm x 53 mm x 35 mm (6.3" x 2.1" x 1.4")	A031	25	Wash openings Device transferable Stackable Pocket spacing: 4.76 mm (0.19")	Blue polypropylene	PA112-18-103-0603 carrier
48.3 mm (1.90")	3.18 mm (0.125")	7.0 mm (0.28")	203 mm x 142 mm x 13 mm (8.0" x 5.6" x 0.5")	PA08	72	—	Blue polypropylene Blue polypropylene	A179-01-0603 carrier A178-02-0603 cover
66.1 mm (2.604")	6.8 mm (0.266")	20.8 mm (0.819")	203 mm x 152 mm x 30 mm (8.0" x 6.0" x 1.2")	A05, A08	42	For LCDs 66.5 mm long x 3.18 mm thick (2.50" x 0.13")	PFA	A88-0215 carrier



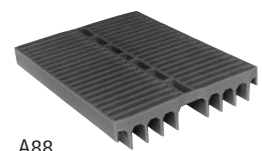
PA112



A180



A179



A88

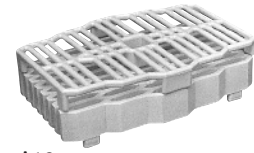
Miscellaneous Device Carriers (continued)

Miscellaneous Carriers

- For handling miscellaneous devices
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



H48



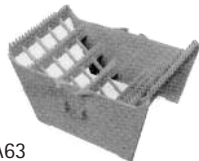
A16

Ordering Information

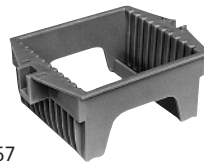
Device Size	Pocket Length	Pocket Width	Pocket Depth	Capacity	Overall Size (L × W × H)	Compatible Handles	Notes	Material	Part Number
	6.3 mm (0.248")	3.3 mm (0.130")	5.9 mm (0.232")	48	62.2 mm × 72.1 mm × 11.4 mm (2.45" × 2.84" × 0.43")	PA01, PA07, PA029	Pocket flat: 0.41 mm (0.02")	Blue polypropylene	H49-01-0603 carrier (not shown)
7.9 mm dia (0.31")	8.1 mm (0.32")	3.6 mm (0.14")	7.1 mm (0.281")	48	64 mm × 71 mm × 13 mm (2.5" × 2.8" × 0.5")	A01, A07, A029		PFA PFA	H48-01-0215 carrier H48-02-0215 cover
4.8 mm to 15.7 mm dia (0.19" to 0.62")	16.5 mm (0.65")	3.6 mm (0.14")	9.1 mm (0.36")	42	89 mm × 61 mm × 18 mm (3.5" × 2.4" × 0.7")	A05		PFA PFA	A16-01-0215 carrier A16-02-0215 cover
25.4 mm (1.00")	25.4 mm (1.00")	7.9 mm (0.31")	9.5 mm (0.38")	18	76 mm × 74 mm × 15 mm (3.0" × 2.9" × 0.6")	A05, A08	Wash openings in each pocket	PFA	A118-01-0215 carrier
102 mm to 203 mm square or rectangular (4" to 8")		0.8 mm (0.030")		20	210 mm × 152 mm × 121 mm (8.3" × 6.0" × 4.8")	—	Pocket spacing: 5.84 mm (0.230")	Blue polypropylene	A63-01-0603 carrier
114 mm square (4.5")		2.3 mm (0.090")		10	152 mm × 114 mm × 64 mm (6.0" × 4.5" × 2.5")	A027, A031	Pocket spacing: 9.53 mm (0.38") Handle: A57-03 147 mm × 25 mm × 241 mm (5.8" × 1.0" × 9.5")	PFA	A57-01-0215 carrier



A118



A63

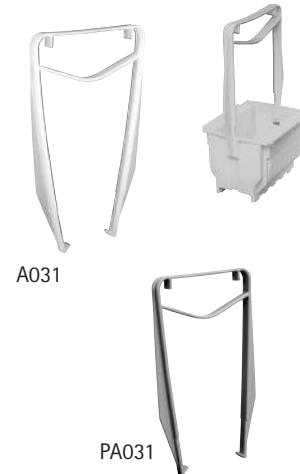


A57

Handles for Miscellaneous Products

Squeeze Style Handles

- Allows easy engagement and disengagement from the carrier
- Attaches to the notches in both end walls of the carrier
- Applying pressure to the center of the two cross members and squeezing causes the struts to separate
- For use with various miscellaneous carriers
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



Ordering Information

Overall Size (L × W × H)	Material	Part Number
173 mm × 15 mm × 259 mm (6.8" × 0.6" × 10.0")	PFA Blue polypropylene	A031-0215 PA031-0603

Stick Handles

- Rectangular or square styles
- For use with LCD carriers, miscellaneous carriers, wafer baskets and labware trays
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

Ordering Information

Style	Overall Size (L × W × H)	Material	Part Number
Square	10 mm × 10 mm × 193 mm (0.4" × 0.4" × 7.6")	PFA Blue polypropylene	A01-0215 PA01-0603
Square	10 mm × 10 mm × 229 mm (0.4" × 0.4" × 9.0")	PFA Blue polypropylene	A07-0215 PA07-0603
Square	10 mm × 10 mm × 305 mm (0.4" × 0.4" × 12.0")	Blue polypropylene	PA029-0603
Rectangular	15 mm × 8 mm × 163 mm (0.6" × 0.3" × 6.4")	PFA	A05-0215
Rectangular	15 mm × 8 mm × 229 mm (0.6" × 0.3" × 9.0")	PFA Blue polypropylene	A08-0215 PA08-0603



A01, PA01
A07, PA07



PA029



A05



A08, PA08

Labware Products

Tweezers

- For substrate handling
- Packaged in protective cases, additional cases available
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



Ordering Information

Tip Style and Size	Tip Thickness	Overall Size	Notes	Material	Part Number
Rounded, 0.8 mm (0.03") radius	—	127 mm × 13 mm (5.0" × 0.5")	—	ETFE	C01-0315
				White polypropylene	C01-0612
—	0.3 mm (0.01")	124 mm × 13 mm (4.9" × 0.5")	—	ETFE	C10-0315
Rounded, 1.5 mm (0.06") radius	0.3 mm (0.01")	124 mm × 13 mm (4.9" × 0.5")	—	ETFE	C12-0315
Rounded, 1.5 mm (0.06") radius	0.3 mm (0.01")	124 mm × 13 mm (4.9" × 0.5")	—	Glass-filled ETFE	C13-03F15
				Glass-filled white polypropylene	C13-06F12
Tapered, thin	—	127 mm (5.0")	Tips slightly heavier than C10 and C12	ETFE	C14-0315
Rounded, 1.5 mm (0.06") radius	0.4 mm (0.01")	178 mm × 15 mm (7.0" × 0.6")	—	ETFE	C16-0315
Rounded, 1.5 mm (0.06") radius	—	127 mm × 13 mm (4.8" × 0.5")	Extra heavy for much stronger grip at ends	PFA	C20-0215
				Glass-filled white polypropylene	C20-06F12

Tweezer Protective Case

- For tweezer storage
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

Ordering Information

Material	Part Number
Natural polypropylene	C18-01-0615
Styrene/polystyrene	C16-01-1215

Tongs

- For substrate handling
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



C30



C40



C50



C52

Ordering Information

Tip Style	Tip Width	Adjustable	Opening Width	Overall Size (L × W × H)	Notes	Material	Part Number
Squared off with wafer stop horns	9.6 mm (0.38")	No	—	152 mm × 37 mm × 16 mm (6.0" × 1.5" × 0.6")	Does not damage substrate surface by over-grasping, comes with protective case	PFA	C30-0215
Hooked inward with squared end	2.5 mm (0.100")	Yes 4 positions	254 mm to 152 mm (10" to 6")	231 mm × 35 mm × 10 mm (9.9" × 1.2" × 0.4")	—	ETFE	C40-0315
Squared off	19 mm (0.75")	No	2.2 mm (0.9")	253 mm × 35 mm × 10 mm (10.3" × 1.4" × 0.8")	Extra length for deep tanks	ETFE	C50-0315
Squared off	—	No	—	190 mm × 19 mm (7.5" × 0.8")	Ideal for handling large plates	PFA	C52-0215

Vacuum Probes and Tips

D43 Vacuum Probe

- Operated at the tip by placing finger over the hole on probe top
- End accepts 4.8 mm ($\frac{3}{16}$ " I.D. hose
- Uses D42 tips or 4.1 mm (0.16") I.D. hypodermic needle
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



D43

Ordering Information

Material	Part Number
Blue polypropylene	D43-0603

Labware Products (continued)

D42 Tips

- Used with D43 vacuum probes
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

Ordering Information

Orifice Diameter	Material	Part Number
6.4 mm (0.25")	PFA	D42-02-0215
0.3 mm (0.01")	PFA	D42-03-0215
1.5 mm (0.06")	PFA	D42-04-0215



D42-02



D42-04



D42-03

Beakers

- Seamless with uniform wall thickness
- Molded ring on bottom ensures stability
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

Ordering Information

Capacity	Diameter	Height	Material	Part Number
100 ml (3.4 oz)	53 mm (2.1")	66 mm (2.6")	PFA	D50-10-0215
250 ml (8.5 oz)	73 mm (2.9")	89 mm (3.5")	PFA	D50-25-0215
400 ml (13.5 oz)	80 mm (3.1")	105 mm (4.1")	PFA	D50-40-0215
600 ml (20.3 oz)	91 mm (3.6")	121 mm (4.8")	PFA	D50-60-0215
800 ml (27.1 oz)	103 mm (4.1")	135 mm (5.3")	PFA	D50-80-0215
1000 ml (33.8 oz)	110 mm (4.3")	144 mm (5.7")	PFA	D50-100-0215



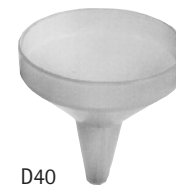
D50

Funnel

- Spout tapers to 6.4 mm (0.25")
- D20 strainer tray fits inside funnel
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

Ordering Information

Overall Size	Material	Part Number
81 mm dia × 84 mm (3.2" × 3.3")	PFA	D40-0215



D40

Strainer Tray

- Use individually, stacked, or two trays may be locked together to form a rinse basket
- Choice of three different hole sizes
- Inside diameter: 76 mm (3.0")
- Overall size: 97 mm × 46 mm (3.8" × 1.8")
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

Ordering Information

Overall Size	Material	Part Number
0.76 mm dia (0.03")	PFA	D20-030-0215
1.3 mm dia (0.05")	PFA	D20-050-0215
3.2 mm dia (0.13")	PFA	D20-125-0215



D20 Tray

Dippers

- Holds one wafer or one square plate
- Slot has "V" bottom
- Clip on handle slides down to hold substrates in place
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



D15



D14



D11

Ordering Information

Wafer Size	Square Plate Size	Maximum Thickness	Dipper Length	Material	Part Number
125 mm to 200 mm (5" to 6")	14 mm to 203 mm (4.5" to 8.0")	6.4 mm (0.25")	480 mm (18.9")	PFA	D15-0215
57 mm to 125 mm (2.25" to 6")	50 mm to 153 mm (2.0" to 6.0")	3.0 mm (0.12")	265 mm (10.4")	PFA	D14-0215
57 mm and smaller (2.25" and smaller)	51 mm and smaller (2.0" and smaller)	1.5 mm (0.06")	210 mm (8.3")	PFA	D11-0215

Dipper Basket

- Used to clean or etch small pieces
- Hook on end of handle
- Contains 100 openings
- Fits in 400 ml (13.5 oz) and larger beakers
- Opening size: 5.6 mm sq. (0.22")
- Inside dimensions: 63 mm dia × 51 mm (2.5" × 2.0")
- Overall size: 68 mm dia × 235 mm (2.7" × 9.3")
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.

Ordering Information

Material	Part Number
ETFE	D10-0315



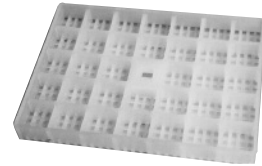
D10

Labware Products (continued)

Trays and Accessories

D34 Wash Trays

- Used to clean odd-sized devices
- Divided into 34 pockets with 16 wash openings each
- Cover sold separately
- Compatible handle: A01
- Pocket size: 20 mm sq. × 10 mm (0.8" × 0.4")
- Wash openings: 3.18 mm (0.13")
- Overall size: 170 mm × 127 mm × 18 mm (6.7" × 5.0" × 0.7")
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



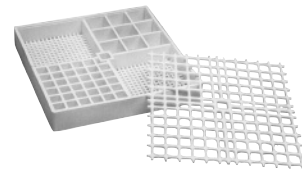
D34

Ordering Information

Description	Material	Part Number
Tray	PFA	D34-01-0215
Cover	PFA	D34-02-0215

D29 Wash Trays

- Used to clean odd-sized devices
- Divided into four compartments
- Cover sold separately
- Uses D29-03 and D29-04 dividers
- Compatible handle: A01
- Grid size: 2.5 mm sq. (0.10" sq.)
- Wash openings: 2.5 mm sq. (0.10" sq.)
- Overall size: 163 mm sq. × 30 mm (6.4" × 1.2")
- Sizes refer to PFA material, polypropylene sizes slightly larger
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



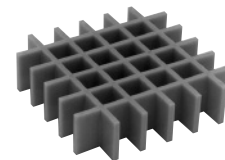
D29-01

Ordering Information

Description	Material	Part Number
Tray	PFA	D29-01-0215
Cover	PFA	D29-02-0215

D29-03 Wash Tray Divider

- Single divider fits in each compartment of D29 trays
- Contains 36 individual wash compartments
- Grid size: 10.2 mm × 10.2 mm (0.40" × 0.40")
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



D29-03

Ordering Information

Material	Part Number
PFA	D29-03-0215
STAT-PRO 150	D29-03-62C02

E40 Handling and Storage Trays

- Holds devices for handling or storage
- Stackable
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952-556-4181.



Ordering Information

Pockets	Pocket Size	Overall Size	Material	Part Number
42	25 mm × 46 mm × 13 mm (1.0" × 1.8" × 0.5")	310 mm × 203 mm × 38 mm (12.2" × 8.0" × 1.5")	Blue polypropylene	E40-0603
12	64 mm × 71 mm × 13 mm (2.5" × 2.8" × 1.5")	310 mm × 203 mm × 38 mm (12.2" × 8.0" × 1.5")	Blue polypropylene STAT-PRO 100	E40-12-0603 E40-12-61C02

Index by Part Number

A01	.29	A26	.26	C14	.30	H6620	.19
A05	.29	A45	.27	C16	.30	H6630	.16
A07	.29	A47	.26	C18	.30	H9100	.9
A08	.29	A57	.28	C20	.30	H9125	.2
A021	.25	A63	.28	C30	.31	H9150	.2,9
A031	.29	A72-20M	.22	C40	.31	H93	.2,9
A040	.7,14	A72-22M	.22	C50	.31	PA01	.29
A047	.7	A72-25M	.21	C52	.31	PA07	.29
A048	.14	A72-30M	.17	D10	.33	PA08	.29
A048B	.19	A72-40-03	.14	D11	.33	PA029	.29
A053	.14	A72-40-04	.14	D14	.33	PA031	.29
A054	.7	A72-40-04B	.14	D15	.33	PA112	.27
A118	.28	A72-40-06	.14	D20	.33	PA135	.23
A12	.26	A72-40M-02	.15	D29	.34	PA182-39	.12,15
A13	.26	A72-40MB	.11,12,14,15	D34	.34	PA182-50	.5
A135	.23	A72-50-02	.8	D40	.32	PA194-40M	.11,12
A14	.26	A72-50-03	.7	D42	.32	PA194-50MB	.5
A15	.26	A72-50-04	.7	D43	.31	PA50-30	.18
A16	.28	A72-50-04B	.7	D50	.32	PA72-20M	.22
A17	.26	A72-50M	.4,5	E04	.22	PA72-22M	.22
A178	.27	A82-03	.19	E127	.23	PA72-25M	.21
A179	.27	A82M	.17,19	E38-101	.19	PA72-30M	.17
A180	.27	A83	.25	E40	.35	PA72-40-03	.14
A182-39	.11,12,14,15	A85	.24	E52-101	.18	PA72-40MB	.12,15
A182-50	.4,5,8	A86	.27	E88	.12,13,15	PA72-50-03	.7
A190-30M	.18	A88	.27	E89	.5,6,8	PA72-50M	.5
A190-40M	.11,12,14	A89	.26	E93	.5,6,8	PA82-03	.19
A190-50M	.4,5	A92	.25	E95	.6,8,13,15,18	PA82M	.17,19
A193	.25	A93	.27	E96	.6,8,13,15,18	PA83	.25
A194-50MB	.3,5	AC-101	.23	E97	.12,13,15	PA85	.24,25
A21	.26	C01	.30	H20	.3,10,17,21	1112	.24,25
A22	.26	C10	.30	H22	.3,10,16,20	1511	.24,25
A23	.26	C12	.30	H48	.28	Y456	.7,14
A24	.26	C13	.30	H49	.28		

Entegris Standard Warranties

GENERAL LIMITED WARRANTY FOR NON-CUSTOM ENTEGRIS PRODUCTS

Subject to the limitations and disclaimers set forth below, Entegris, Inc. ("Entegris") warrants that for the Applicable Warranty Period (as defined in the section entitled "Applicable Warranty Period" below) following the date of shipment, the products manufactured by it shall be free of defects in materials and workmanship when installed, used, serviced and operated in accordance with the applicable product documentation. The Applicable Warranty Period does not apply to any lifetime performance. In the event that a product failure is caused by a defect in materials or workmanship within the Applicable Warranty Period, Entegris agrees to repair or replace, at its option and at no charge to the purchaser, any product or part thereof that proves to have such a defect, provided that prompt written notice of any such defect is given to Entegris. Entegris' agreement to repair or replace any product found to be defective in materials or workmanship is the exclusive remedy provided herein; this remedy shall not be deemed to have failed of its essential purpose so long as Entegris is willing and able to repair or replace any such defective Entegris product or part or to refund the purchase price paid.

Limitations

The warranty set forth above is LIMITED and does not cover: **(A)** products with the identification label or serial number altered or removed; **(B)** products which have been repaired, or tampered with or serviced by any person other than an authorized Entegris service representative; **(C)** products which have been subjected to misuse, neglect or abuse (including, without limitation, exposure to overpressure, use with excessive voltage or inappropriate power source or exposure to hostile operating conditions unless the product has been expressly specified by Entegris for use therein). In the case of Entegris products which are systems that include components manufactured by companies other than Entegris or its affiliates, the foregoing warranty shall apply only to those components and subassemblies manufactured by Entegris or its affiliates; the non-Entegris components and subassemblies included in such systems are covered by the warranty, if any, extended by the manufacturer thereof. Entegris hereby assigns any such warranty to the system purchaser.

Disclaimers

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In the event of a breach of the foregoing warranty, Entegris' sole obligation shall be to repair or replace, at its option, any product or part thereof that proves defective in materials or workmanship within the warranty period, provided the customer notifies Entegris promptly of any such defect. The exclusive remedy provided herein shall not be deemed to have failed of its essential purpose so Entegris product or part or to refund the purchase price paid.

Applicable Warranty Period

As used in this General Limited Warranty the term Applicable Warranty Period for the indicated product groups are as follows:

Entegris Products	Warranty Period	Entegris Product Codes	Entegris Products	Warranty Period	Entegris Product Codes
Polymeric membrane products Exceptions: Does not apply to membrane-based purifiers	1 year from date of shipment	H4, H5, M4, M6	Non-dispense electro-mechanical products	1 year from date of shipment	—
Metal membrane products Exceptions: Nickel membrane gas filtration products	2 years from date of shipment 5 years or 100,000 cycles (whichever comes first) from date of shipment	12 12	Integrated shipping systems products	30 days from date of shipment	—
membrane gas diffuser products Exceptions: Nickel membrane gas diffuser products	5 years or 100,000 cycles (whichever comes first) from date of shipment	15	Wafer handling, electronic packaging products and cleaning systems	90 days from date of shipment	—
Polymeric membrane-based purifiers / Other liquid purifiers / Gas purifiers / Chemical filters	1 year from date of shipment	I7, I8, F1, F2, F4	Liquid fittings, containers and housings Exceptions: Sheetlined chemical container products and FluoroPure® PFA Liners (blistering, cracking or leakage only)	1 year from date of shipment 18 months from date of shipment	— —
Dispense products and liquid subsystems Exceptions: Products and subsystems purchased by Original Equipment Manufacturers (OEM)	1 year from date of shipment 18 months from date of shipment	H6 H6	Exceptions: FluoroPure® o-rings and gasket materials	90 days from date of shipment	—
			Software Products	1 year from date of shipment	—
			Other Products	1 year from date of shipment	—

CUSTOM ORDER LIMITED WARRANTY FOR ENTEGRIS PRODUCTS

Entegris, Inc. warrants Custom Order products against defects in materials and workmanship for a period of thirty (30) days following receipt by the purchaser. Entegris' sole obligation shall be to repair or replace, at its option, any Custom Order product that proves to be defective in materials or workmanship within the warranty period.

Disclaimers

ENTEGRIS MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED. THERE IS NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. THE APPLICABLE WARRANTY PERIOD IS NOT A LIFETIME PERFORMANCE WARRANTY. The warranty provided herein and the data, specifications and descriptions of Entegris products appearing in Entegris' published catalogs and product literature may not be altered except by express written agreement signed by an officer of Entegris. Representations, oral or written, which are inconsistent with this general limited warranty or any such publications are not authorized and if given, should not be relied upon. Notwithstanding the failure of any remedy provided herein, **in no event shall Entegris be liable for consequential, incidental, special or any other indirect damages resulting from economic loss or property damage sustained by any customer from the use of Entegris products.**

In the event of a breach of the foregoing warranty, Entegris' sole obligation shall be to repair or replace, at its option, any product or part thereof that proves defective in materials or workmanship within the warranty period, provided the customer notifies Entegris promptly of any such defect. The exclusive remedy provided herein shall not be deemed to have failed of its essential purpose so long as Entegris is willing and able to repair or replace any nonconforming Entegris product or part or to refund the purchase price paid.

STAT-PRO Material Reference Table

Material Name	Description
STAT-PRO 100	Black, Static Protective Polypropylene
STAT-PRO 125	Black, Static Protective Polypropylene
STAT-PRO 135	Ceramic Filled Polypropylene
STAT-PRO 150	Black, Conductive Polypropylene
STAT-PRO 175F	Carbon Fiber Filled PES
STAT-PRO 200	Black, Static Protective Polypropylene
STAT-PRO 300	Orange, Static Dissipative PFA
STAT-PRO 400	Colorable, Static Dissipative ABS
STAT-PRO 425	Transparent, Static Dissipative ABS
STAT-PRO 500	Black, Conductive Polycarbonate
STAT-PRO 525	Carbon Fiber Filler Polycarbonate
STAT-PRO 550	Colorable, Stainless Steel Filled Polycarbonate
STAT-PRO 600	Carbon Fiber Filled PES
STAT-PRO 650	Carbon Fiber Filled Polysulfone
STAT-PRO 800	Colorable, Carbon Fiber ULTEM®
STAT-PRO 825	Colorable, Stainless Steel ULTEM
STAT-PRO 1000	Black, Static Dissipative PFA
STAT-PRO 2000	Static Dissipative PFA Material
STAT-PRO 3000	Black, Static Dissipative PEEK™ with Carbon Fiber

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