Ultrapak® 100 mm Thin Wafer Shipper

Dramatically enhanced performance for thin wafer products

The Ultrapak® 100 mm thin wafer shipper is designed for thin silicon (Si) and compound semiconductor applications. This design is based on proven Ultrapak shipper performance and materials, but engineered to provide additional support around the perimeter of the wafer to better protect thinned substrates. We have added an upper and lower cushion that is specifically engineered for thin wafer support. This cushion design helps prevent wafer cross-slotting, and improves radial support as well.

The 100 mm thin wafer shipper also incorporates secondary packaging designed for fragile thin wafers. This casing holds eight shippers at a time, protecting a total of 200 wafers. During a drop test using our secondary packaging, no damage to thin wafers was observed in a 0.926 meter (38") drop. This thin wafer shipper has also passed a battery of other functional tests using thin wafers.

Provides the cleanest wafer edge and maximum protection.

MATERIALS DESCRIPTION

The Ultrapak box top, bottom, cassette, and retainer assembly are manufactured from high-purity Wafershield™ polypropylene (PP) material offering:

- Low inorganics
- Low particle generation
- Low outgassing
- SPI recycle code – 5

FEATURES & BENEFITS

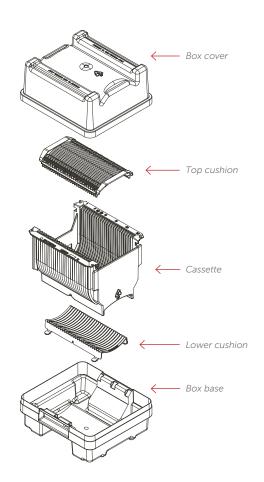|	
Custom high-purity Wafershield PP box construction	Provides a clean and safe shipping environment
Ultrapure PP cassette and cushion insert	Minimize wafer edge contamination
Horizontal and vertical robotic flanges	Enable easy cassette handling and transport
	Maximize automation interface and efficiency
Center notch track alignment and "H" bar	Ensure accurate equipment interoperability, both vertically and horizontally
Fully interoperable with existing Ultrapak shipper environments	Drop-in substitute for Ultrapak cassettes
	Indexing locations, wafer planes, and slot height/shape are identical to standard Ultrapak shipper
	Enables seamless field operation

◆ Entegris

PRODUCT SPECIFICATIONS

Box	Length	146 mm (5.75")
	Width	162.6 mm (6.42")
	Height	119.4 mm (4.7")
Cassette	Length	143.4 mm (5.65")
	Width	125.7 mm (4.95")
	Height	107.8 mm (4.25")
	Inside track width	61.6 mm (2.43")
	D1	14.5 mm (0.57")
	Pitch	114.3 mm (4.5")

← Box cover

← Top cushion

← Cassette

← Lower cushion

← Box base

PACKAGING SPECIFICATIONS

Case quantity	36 assemblies
Case weight	16 kg (35 lb)
Case size	52 cm × 53 cm × 50 cm (21" × 21" × 20")
Pallet quantity	8 cases (288 assemblies)
Container quantity (20 ft)	24 pallets (6,912 assemblies)
Container quantity (40 ft)	52 pallets (14,976 assemblies)

ORDERING INFORMATION

Part number	Description	Minimum order quantity
H9100-0050	Standard (offered shrink-wrapped)	140
H9100-0051	Cleaned	140

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you.
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