

# Hiner-pack® FHWS Canister 300 mm

*Protects wafers from contamination during secure transport and storage*

Engineered for secure transport and storage of wafer-attached flex, dicing, or film frame in semiconductor packaging, this shipper delivers critical protection and automation compatibility. Its precision-molded slots immobilize frames, its perimeter support rings and inner contours cradle the metal or plastic frame rather than the wafer surface, preventing wafer slippage and micro-crack damage during handling. Lock catch secure system and inner side impact-resistant space design provide effective protection during wafer transportation. Constructed from anti-static PP, dust-free cleaning and packaging after completion of production, suitable for a 100-class purification workshop, ensures particle-free storage, which is critical in maintaining the integrity of sensitive wafers throughout the shipping process. Flex Frame Wafer Shippers are the ideal solution for semiconductor manufacturers seeking reliable and efficient transportation of multiple wafers mounted on dicing, flex, or film frames.



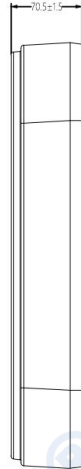
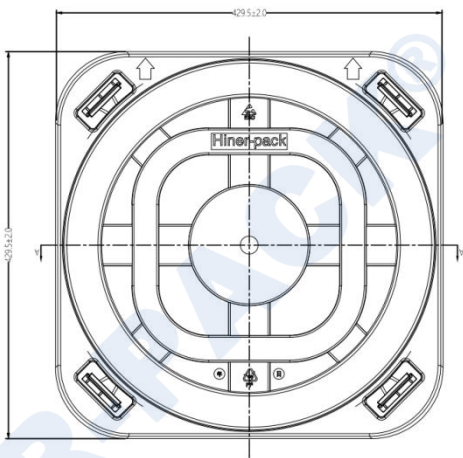
## SPECIFICATIONS

- 429.5 mm L × 429.5 mm W × 70.5 mm H (16.91" × 16.91" × 2.78")
- Maximum load capacity is 13 pieces
- Sold in full case quantity (5)

## FEATURES & BENEFITS

- ESD-safe and made from low-particle/ionic/outgassing material
- Wafers are mounted on flex, dicing, or film frame to protect them from shock and edge damage
- Conforms to the automatic interface of process equipment
- Stackable, reusable for cost-efficient shipping

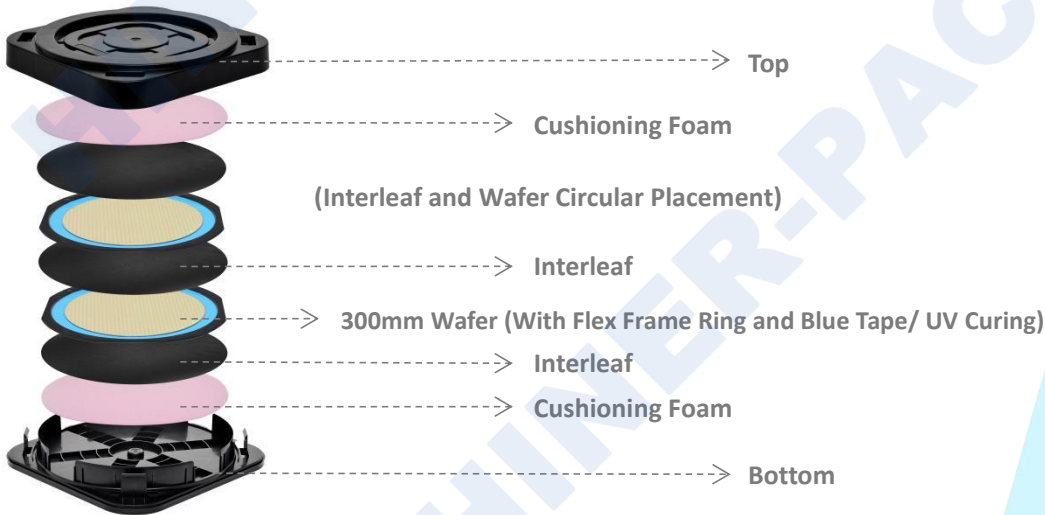
DIMENSION



BASIC INFORMATION

| Part Number | Collocation Reference              | Wafer Size |
|-------------|------------------------------------|------------|
| FHWS-12/13  | Bottom+Cushion+Interleaf+Frame+Top | 300 mm     |

REFERENCE ILLUSTRATION



The above illustration is for reference only. Please refer to the actual product for accuracy.

## TECHNICAL DATA

| PROPERTY                           | TEST METHOD          | RATED VALUES                                  |
|------------------------------------|----------------------|-----------------------------------------------|
| Density                            | ISO 1183-1 (23°C)    | 1.0 g/cm <sup>3</sup>                         |
| Melt Index (350°C/5kg)             | ASTM D-1238          | 15.0 g/10min                                  |
| Shrinkage Percentage               | ISO 2577             | 1.2~1.6 %                                     |
| Tensile Strength                   | ISO 527-2 (50mm/min) | 25 MPa                                        |
| Tensile Strain at Break            | ISO 527-2 (50mm/min) | 10 %                                          |
| Flexural Strength (Fracture)       | ISO 178 (2mm/min)    | 27 MPa                                        |
| Flexural Modulus                   | ISO 178 (2mm/min)    | 1150 MPa                                      |
| LZOD Notch Impact Strength (3.2mm) | ISO 180 (23°C)       | 30 kJ/m <sup>2</sup>                          |
| Surface Resistivity                | ASTM D-257           | 1.0×10 <sup>4</sup> ~1.0×10 <sup>9</sup> Ω/sq |
| Flame Retardant Rating             | UL 94                | HB Class                                      |

The information on technical data included in this document is based on our experience to date, and we believe it to be reliable. Data is obtained from specimens molded under controlled conditions from representative samples of the compound described. Properties may be affected by the molding techniques and by the size and shape of the item molded. We cannot guarantee favorable results and no assurances can be implied that all molded articles have the sample properties as those listed.



Hiner-pack®

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