



PUNCHED CARRIER TAPE

Surftape®



Surftape® is a unique form of punched carrier tape ideal for bare die or small devices where protection and placement are critical. Components are placed on a wafer film backing within a compartment boundary. Unlike conventional embossed tape, the compartment does not have to be sized to the component – eliminating the need for custom carrier tooling. Traditional cover tape is also not required. Both elements reduce inventory management costs.

Surftape Advantages:

- Ideal for bare die, chip scale packages, MEMs, LEDs, and micro thin components.
- Wafer film base secures the devices in the exact position they are placed, no theta correction is required.
- Die are held safely in place - preventing corners, edges and surfaces from contacting the packing material.
- Simplifies use - eliminating the need for cover tape.
- One size of Surftape can accommodate a multitude of component sizes.
- No tooling cost and minimum order costs.
- Covered by many industry standards for semiconductor packaging:
 - EIA 481
 - EIA 747
 - IEC 60286-3
 - JIS C 0806

Shelf Life and Storage

Surftape® should be used within 18 months of the date of manufacture. Store this product in its original packaging in a climate-controlled environment where temperatures range from 15°C - 30°C (59°F to 86°F) and with relative humidity 40 – 75%. Allow the product to stabilize at room temperature prior to use.

Camber

The Advantek Homogeneous CPS55 series meets the EIA-481-D; not greater than 1mm in 250 linear millimeters.

Standard Surftape® Sizes			
Tape	Width	Pitch	Max Die Size
ST84	8mm	4	2.7 x 2.7 mm
ST124	12mm	4	2.0 x 4.4 mm
ST128	12mm	8	5.0 x 5.0 mm
ST1612	16mm	12	9.0 x 9.0 mm
ST2416	24mm	16	12.5 x 15.0 mm

Tape Material Properties

	Property	Typical Value	Test Method
Physical	Specific Gravity	1.12 g/cm ³	ISO 1183
Tensile	Tensile Strength	29 Mpa	ISO 527
	Tensile Elongation	40%	ISO 527
Flexural	Flexural Strength	46 Mpa	ISO 178
	Flexural Modulus	1520 MPa	ISO 178
Impact	Notched Izod	5 J/m	ISO 840
Thermal	Heat Distortion	85 °C	ISO 75
Electrical	Surface Resistivity	10 ⁴ - 10 ⁸ Ohm/sq	IEC 60093
Thickness	Carrier Tape Thickness	0.65 & 0.85 mm	EN1942
	Adhesive Tape Thickness	0.075mm	EN1942
	Total Thickness	0.725 & 0.925 mm	EN1942

Adhesive Tape Material Properties

Film Type	PVC Film	Test Method/Standard
Adhesive Type	Acrylic-based	
Impurities Content	< 3 ppm	Ion Chromatography
Color	Blue Transparent	



Our wide line of component packaging products offers the flexibility you need to balance price and performance.



ADVANTEK®
engineered confidence™

Embossed Carrier Tapes	SFT®	Complex Designs	Basic Designs	PS / PC			
Surftape	Bare Die		Micro Thin				
Cover Tapes	Heat Activated		Pressure Sensitive				
Packaging Reels	Jumbo	Ultra	Pro	Lite	Trimline	Mini	
Barrier Bags	DRYLOK®			STATLOK®			
Bands	PROBAND®			LOKBAND®			
Humidity Indicators	1 Spot	3 Spot	4 Spot	6 Spot			
Desiccant	1/6 Unit	1/3 Unit	1/2 Unit	1 Unit	2 Unit	4 Unit	8 Unit

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