



## MICROTAPE (Bare Die Carrier Tape)

### PRODUCT DESCRIPTION

Advanced Integrated Materials MicroTape provides a 'total packaging' solution for all devices less than 1mm thick such as Bare Die, Flip Chips, Micro BGA's and Bumped Die.

Manufactured to EIA-763 standards with regards to tape width, pitch, thickness, and sprocket hole dimensions it can easily be used with any standard tape & reeling or pick & place mechanisms.

MicroTape is a punched Carrier Tape with cover tape sealed to one side of the carrier tape as per EIA standards which allows the user to apply the accompanying cover tape to the other side during the tape & reel process. The carrier tape material is a conductive polystyrene and the cover tapes are antistatic polyester thus ensuring a safe ESD package.

### BASE MATERIALS

Black, conductive polystyrene  
AIM Antistatic Clear Cover Tape

### PRODUCT BENEFITS

- Adheres to EIA-763 punched carrier specifications.
- MicroTape uses clear AIM cover tapes on both sides of the tape to allow for both top and bottom inspection of the device.
- Allows for testing of the device in the MicroTape prior to sealing of the cover tape.
- Devices can be loaded into the MicroTape from the wafer frame without the need to 'flip' the chip during the tape & reel process thus eliminating this difficult and costly procedure.
- The totally vertical walls of the punched aperture in the MicroTape prevents the device from riding up the walls (as in some embossed tapes) and being trapped by the cover tapes.
- The tightly controlled punched aperture in the MicroTape relative to the size of the device prevents movement of the device in lateral (typically < 0.2mm) or rotational (typically < 5°) directions thus minimizing abrasion or difficulty in accurate pick up of the device.
- MicroTape Taped product can be used on standard tape feeders - no need to invest in special tape feeders.
- Very flat and consistent peel strength ensures a smooth dereeling process and thus eliminates the possibility of the device jumping out of the punched aperture during detaping.

### SUPPLY FORMAT

MicroTape is supplied on 7", 13" or 22" diameter reels.

### TAPE WIDTHS

MicroTape is available in 8mm, 12mm and 16mm widths.

### TAPE THICKNESSES

MicroTape is available in carrier tape thicknesses dependant on the thickness of the device and ranges from 300 micron through to and including 1000 microns.



PROPERTIES		
Description	Unit of Measure	Typical Result
Specific Gravity	g/cm <sup>3</sup>	1.08
Tensile Strength	MPa	31
Elongation at Break	%	66
Surface Resistivity	Ohms/square	<1 x 10e6
5KV Decay Time		<0.01seconds @ 10% RH
Impact Strength	KJoules/metre <sup>2</sup>	20
Thickness	Micron	200-1000micron
Vicat Softening	°C	97

### Storage Conditions

Recommended storage conditions for MicroTape include storage indoors away from direct sunlight within a temperature range of 18° to 35° C (64° to 95° F) and relative humidity levels between 35% - 65%.

It is recommended that reels are stored upright.

### Warranty Statement

All products come with a one year limited warranty.

### Customer Service

Our customer service and technical support teams can assist in all aspects of specifying your entire MicroTape requirements. Please contact our customer service department at the address below

### Shelf Life

MicroTape tape has a shelf life of up to 12 months when stored under recommended storage conditions

### Other Products and Services Available

In addition to our MicroTape, we offer a complete range of all materials necessary for tape and reel operations including: KLIK REELS, cover tapes, humidity indicator cards, moisture barrier bags, desiccant and other sundry semiconductor finishing materials.

Also available from our company is a full subcontract Tape & Reel packaging and Device Programming service.

Please contact our customer service team for further information on our complete range of Tape & Reel products and services.



### MicroTape Contact Details

#### Europe

Reel Service Ltd  
55 Nasmyth Road  
Southfield Industrial Estate  
Glenrothes  
Fife KY6 2SD  
Scotland  
Email: [marketing@reelserviceltd.com](mailto:marketing@reelserviceltd.com) or:  
Carol Loftus: [cloftus@reelserviceltd.com](mailto:cloftus@reelserviceltd.com)  
Tel: +44 (0) 1592 773208  
Fax: +44 (0) 1592 774696  
[www.reelservice.com](http://www.reelservice.com)