



ADVANCED INTEGRATED MATERIALS

A DIVISION OF THE REEL SERVICE GROUP

MicroTape (Bare Die Carrier Tape)

PRODUCT DESCRIPTION

Advanced Integrated Materials MicroTape provides a 'total packaging' solution for all devices less than 1.5mm thick such as Bare Die, Flip Chips, Micro BGAs 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 supplied 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 static dissipative polyester thus ensuring a safe ESD package.

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 side 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 carrier tape 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 device aperture in the carrier tape prevent the device from riding up the walls (as in some embossed tapes) and being trapped by the cover tapes.
- The tightly controlled aperture in the carrier tape 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 aperture during detaping.

BASE MATERIALS

Black, conductive polystyrene
AIM Static Dissipative Clear Cover Tape

COVER TAPE COMPATIBILITY

MicroTape is compatible with the full range of Advanced Integrated Materials and certain other manufacturers' heat seal cover tapes.

SUPPLY FORMAT

MicroTape is supplied on 7", 13" or 22" Reels.

TAPE WIDTHS

All standard carrier tape widths are available from 8mm to 16mm.

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 1500 microns.

PROPERTIES

	Unit of Measure	
Specific Gravity	g/cm ³	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 ²	20
Thickness	micron	200-1500micron
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.

SHELF LIFE

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

WARRANTY STATEMENT

All products come with a one year limited warranty.

CUSTOMER SERVICE

Our global customer service and technical support teams can assist in all aspects of specifying and sourcing your entire in-house taping requirements. Our extensive open tooling database is utilised to search for available exact fit carrier tapes. Advanced Integrated Materials design carrier tapes for all standard and non-standard components and can

assist in cover tape and KLIK REEL™ recommendations. Materials required for in-house tape & reel and finished goods operations are also supplied. Please contact our local customer service departments at the relative location nearest you. Complete contact details are available from our website contact page.

OTHER PRODUCTS AND SERVICES AVAILABLE

In addition to our carrier tapes, 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 parent company Reel Service, is full subcontract tape and reel, inspection and programming capabilities. Please contact our customer service team for further information on our complete range of tape and reel products and services.



Global packaging, local to you



A member of ASTI

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