**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.
Storage Conditions
Recommended storage conditions for MicroTape include storage indoors away from direct sunlight within a temperature range of 18°C to 35°C (64°F 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.

Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit of Measure</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>g/cm³</td>
<td>1.08</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>MPa</td>
<td>31</td>
</tr>
<tr>
<td>Elongation at Break</td>
<td>%</td>
<td>66</td>
</tr>
<tr>
<td>Surface Resistivity</td>
<td>Ohms/square</td>
<td>&lt;1 x 10e6</td>
</tr>
<tr>
<td>5KV Decay Time</td>
<td></td>
<td>&lt;0.01seconds @ 10% RH</td>
</tr>
<tr>
<td>Impact Strength</td>
<td>Kjoules/metre²</td>
<td>20</td>
</tr>
<tr>
<td>Thickness</td>
<td>micron</td>
<td>200-1500micron</td>
</tr>
<tr>
<td>Vicat Softening</td>
<td>°C</td>
<td>97</td>
</tr>
</tbody>
</table>

The above mentioned information is accurate to the best of the company’s knowledge or is obtained by sources believed by the company to be accurate and does not imply any legally binding assurance. The Company reserves the right to introduce at any time improvement to the above product without prior notice.

www.reelservice.com

Datasheet Micro Tape - Rev . G