**PRODUCT DESCRIPTION**

ARclad® 8001-77 is an ‘XYZ’ axes electrically conductive double-faced pressure-sensitive adhesive tape.

**FEATURES**

- Double-coated electrically conductive nonwoven carrier
- Electrically conductive acrylic adhesive is continuous through the conductive nonwoven for optimal consistency
- Highly conductive nonwoven carrier extends conductivity in the length and width of the tape
- Provided with a 94 lb. double-faced siliconized polycoated kraft liner on one side and a 94 lb. single-faced siliconized polycoated kraft liner on the other side, ideal for die cutting.

**BENEFITS**

- Easy to die cut and apply with dimensionally stable polycoated kraft release liners
- Conductive in the X, Y and Z axes
- Tape thickness and flexibility conforms to the topography of “imperfect surfaces” providing excellent contact

**PRODUCT APPLICATIONS**

Suggested for low current electrical interconnections and ground plane assemblies for cellular phones, computers, PDA’s, touch screens, disk drives and automotive electronics. All pressure-sensitive tapes require an application surface that is clean and dry. Users should assure the product meets the specific needs of their application(s). Adhesives Research can tailor the product to meet the needs of specific applications as requested by customers.

**PRODUCT PROFILE AND DIAGRAM**

<table>
<thead>
<tr>
<th>Optional: 94# S/F siliconized polycoated paper liner</th>
<th>Electrically conductive EC-2 adhesive</th>
<th>Electrically conductive non-woven</th>
<th>Electrically conductive EC-2 adhesive</th>
<th>Tape Composite</th>
<th>4.3 mils [109 microns]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrically conductive EC-2 adhesive</td>
<td></td>
<td>94# D/F siliconized polycoated paper liner</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>D/F Release Liner</td>
<td>6.3 mils [160 microns]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ADHESIVE PERFORMANCE PROPERTIES – Typical Values**

180° Peel Adhesion (5 min. dwell, PSTC Panel, 12 ipm [5mm/sec]): > 24 oz./in. [2.7N/cm] ART# 1005
500 g. Dead Load Shear (500 g. load, ¼ sq. in. [1.6 sq. cm.]): > 1 hour ART# 2054

Reference Test Methods:
Peel Adhesion: ART# 1005 (Adhesives Research Test), ASTM D3330 / D3330M, PSTC #101
Dead Load Shear: ART# 2054 (Adhesives Research Test), ASTM D3654 / D3654M, PSTC #107

**ELECTRICAL PROPERTIES – Typical Values**

Volume Resistance: <10Ω (measured with 1” x 1” electrodes) ART# 3035
Surface Resistance: <15Ω (measured with 1cm x 1cm electrodes with 1cm separation) ART# 3036

*All stated values are nominal and should only be used as a guide for selection. They are not specifications.*
STORAGE AND SHELF LIFE

Unconverted product should be stored at 70°F ± 20°F (21°C ± 11°C) and 50% ± 20% relative humidity, out of direct sunlight. The shelf life of the product is not to exceed two years from date of manufacture.

Note: The information contained on this data sheet is based upon test results of limited quantities of this material and may be modified by Adhesives Research following additional production experience and evaluation. This data should not be used in preparing specifications. Products identified as developmental may be subject to modification by Adhesives Research, Inc.

(26 January 2015 Revision)

APPLICATION AND STORAGE OF PRESSURE-SENSITIVE ADHESIVE TAPES

Pressure-sensitive adhesive tapes function as a mechanical product; however, the adhesive itself is a chemical composition that can be sensitive to environmental conditions. A purchaser of pressure-sensitive adhesive products should be aware of the shelf life of each product and not purchase more than it can use before the expiration date. Shipping and storage conditions affect shelf life. The optimum storage temperature is 70°F (21°C). Cool, dry storage is recommended.

For best results...

1) The surfaces you wish to bond should be clean and free of oil, moisture and dust. If the surface temperature is below 40°F, it may be difficult to achieve a proper bond.
2) Do not use a pressure-sensitive adhesive product where it will be exposed to temperatures lower or higher than those designated for each product. Heat can destroy the effectiveness of the bond and extreme cold can cause the adhesive to harden and not adhere properly.
3) When the tape is applied, use firm hand or lamination pressure to achieve contact between the adhesive and the surface to which it is applied. Hand rollers or nip rollers may be needed for certain products or applications.

Consult your Adhesives Research sales representative if you need additional information.

THIS IS NOT AN OFFER

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