ARclad® IS-7970-39
Heat Activated

FEATURES

- Heat activated adhesive
- Densified kraft liner

BENEFITS

- Superior plasticizer and chemical resistance
- Will bond to materials not normally suited for pressure-sensitive adhesives

PRODUCT APPLICATIONS

Suggested for bonding foams, corks, felts and most metals and plastics. Suitable for plasticized PVC. 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 CONSTRUCTION – TYPICAL VALUES

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesive:</td>
<td>2.0 mils</td>
</tr>
<tr>
<td>Liner:</td>
<td>3.2 mils</td>
</tr>
<tr>
<td>Total:</td>
<td>5.2 mils nominal</td>
</tr>
</tbody>
</table>

Reference Test Methods:
PSTC-133

STORAGE AND SHELF LIFE

One year when stored at 70°F, 50% R.H.

SERVICE TEMPERATURE RANGES

Adhesive is fully activated at temperatures above 300°F (149°C) with a combination of firm pressure and a few seconds dwell. IS-7970-39 can be tacked in place at temperatures less than 300°F and be activated later with additional heat, pressure and dwell. Optimum bonds can be achieved with various combinations of the three processing parameters. A degree of experimentation may be required to determine the best process for a particular application.

Recommended Minimum Application Temperature: 325°F (162°C) at 10 PSI
(10-30 sec. dwell)

(Revision – 01/12/09)
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 AR sales representative if you need additional information.

WARRANTY AND DISCLAIMER

AR expressly warrants to Purchaser that its product, under normal and intended use maintenance and storage, is free from defects in workmanship for twelve (12) months from the date of shipment, unless otherwise stated. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES.

AR MAKES NO WARRANTY AS TO EXPERIMENTAL AND DEVELOPMENTAL SAMPLES OR MATERIALS.

AR MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

No provisions, representations, diagrams, drawings or pictures contained in any product literature, price list, catalogue, purchase order, product data sheet, order acknowledgment, invoice, delivery ticket, or any other communication by AR, including information on AR's website or representations made by AR's employees or agents, constitute express warranties. Results of tests and recommendations included in communications of AR do not constitute express warranties. SINCE MANY FACTORS MAY AFFECT THE USE AND PERFORMANCE OF AN AR PRODUCT IN A PARTICULAR APPLICATION, INCLUDING, AMONG OTHERS, THE PRODUCT SELECTED FOR USE, THE CONDITIONS IN WHICH THE PRODUCT IS USED, THE TIME AND ENVIRONMENTAL CONDITIONS IN WHICH THE PRODUCT IS EXPECTED TO PERFORM, THE MATERIALS TO BE USED WITH THE PRODUCT, THE SURFACE PREPARATION OF THOSE MATERIALS, AND THE APPLICATION METHOD FOR THE PRODUCT, PURCHASER ACCEPTS RESPONSIBILITY FOR DETERMINING WHETHER AR'S PRODUCT IS FIT FOR A PARTICULAR PURPOSE AND SUITABLE FOR PURCHASER’S METHOD OF APPLICATION. AR retains the right to modify or change its products if in AR’s judgment it is advisable.

Purchaser’s exclusive remedy and AR's sole obligation for any breach of warranty is limited to, at AR’s option, either: 1) replacement of AR's product, or 2) reimbursement of the purchase price of AR's product. AR DISCLAIMS ANY OTHER OBLIGATION OR LIABILITIES ARISING OUT OF BREACH OF WARRANTY. AR will not be liable of any loss, damage, expense or consequential, incidental or special damages of any kind.

ARclad® is a registered trademark of Adhesives Research. Insight® is a registered service mark of Adhesives Research, Inc. Adhesives Research® is a registered service mark of Adhesives Research, Inc. for engineering and design services in the field of pressure-sensitive adhesive systems.

©2012 Adhesives Research, Inc. Printed in USA.