ARflow® 93049 (Developmental)
Hydrophilic Pressure-Sensitive Adhesive

PRODUCT DESCRIPTION

ARflow® 93049 is a thin and flexible plastic film coated on one side with a hydrophilic pressure-sensitive adhesive. The adhesive side of the tape is protected by a clear siliconized polyester release liner.

FEATURES

- Stable to a wide array of temperatures and humidity
- Roll format
- Flexible tape
- Hydrophilic surface
- Pressure-sensitive adhesive
- Smooth coating
- Excellent die cutting

BENEFITS

- Facilitates design options
- Excellent conformability
- Wettable to liquids such as water, urine, blood, etc.
- Provides adhesion to polymer and metalized polymer surfaces
- Good aesthetic quality

PRODUCT PROFILE AND DIAGRAM

Substrate: 3 mil clear polyester film
Adhesive: HY-32 hydrophilic pressure-sensitive adhesive
Liner: 1.5 mil clear polyester release film

PROPERTIES

<table>
<thead>
<tr>
<th>ATTRIBUTE</th>
<th>NOMINAL VALUE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesive Thickness:</td>
<td>1.0 mil</td>
</tr>
<tr>
<td>Thickness Without Liner:</td>
<td>4.0 mils</td>
</tr>
<tr>
<td>Total Thickness:</td>
<td>5.5 mils</td>
</tr>
<tr>
<td>180° Peel Strength from Polystyrene:</td>
<td>30 oz./in.</td>
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<tr>
<td>180° Peel Strength from Stainless Steel:</td>
<td>20 oz./in.</td>
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<tr>
<td>180° Peel Strength from PE:</td>
<td>15 oz./in.</td>
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<tr>
<td>180° Peel Strength from Polyester:</td>
<td>30 oz./in.</td>
</tr>
<tr>
<td>180° Peel Strength from Polycarbonate:</td>
<td>80 oz./in.</td>
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</tbody>
</table>

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

PRODUCT APPLICATIONS

Suggested for assemblies of in-vitro diagnostic and related membrane-based immunoassay products where enhanced wettability to water, blood and other hydrophilic liquids are required. 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.
SAFETY DATA

HY-32 is a hydrophilic pressure-sensitive adhesive. This adhesive has not been tested for biocompatibility and is not recommended for use on skin.

STORAGE, SHELF LIFE AND HANDLING

Unconverted rolls should be stored at 70 °F ± 20 °F (21°C) and less than 50% ± 20% relative humidity, out of direct sunlight. The hydrophilic pressure sensitive adhesive is sensitive to surface impurities. It is recommended that the coated samples be handled using powder-free gloves and in an area that is away from dirt, silicones or other types of oils.

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. These data should not be used in preparing specifications. Products identified as developmental may be subject to modification by Adhesives Research, Inc.

(20 March 2013)