PRODUCT DESCRIPTION

ARflow® 92804 is a thin and flexible plastic film coated on one side with a hydrophilic heat sealing adhesive. The adhesive side of the tape is protected by a clear siliconized polyester release liner.

FEATURES

- Roll format
- Flexible tape
- Hydrophilic surface
- Heat activated adhesive
- Smooth coating
- Easily die cut

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-25 heat activated hydrophilic adhesive
Liner: 2 mil clear polyester release film

PROPERTIES

<table>
<thead>
<tr>
<th>ATTRIBUTE</th>
<th>NOMINAL VALUE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-Peel Strength from 4 mil PET Film</td>
<td>32 oz/in</td>
</tr>
<tr>
<td>Adhesive Thickness:</td>
<td>0.8 mil</td>
</tr>
<tr>
<td>Thickness Without Liner:</td>
<td>3.8 mils</td>
</tr>
<tr>
<td>Total Thickness:</td>
<td>5.8 mils</td>
</tr>
</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-25 is a hydrophilic heat seal adhesive. This adhesive has not been tested for biocompatibility and is not recommended for use on skin.
# RECOMMENDED SEALING CONDITIONS

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>RECOMMENDED VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature:</td>
<td>≥ 100 °C (212 °F)</td>
</tr>
<tr>
<td>Pressure:</td>
<td>40 psi</td>
</tr>
<tr>
<td>Dwell Time:</td>
<td>≥ 1 second</td>
</tr>
</tbody>
</table>

## 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 heat seal 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.

(8 July 2011)

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**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.
3) Heat can destroy the effectiveness of the bond and extreme cold can cause the adhesive to harden and not adhere properly.
4) 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.
5) Rollers or nip rolls may be needed for certain products or applications. Consult your AR sales representative if you need additional information.

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