**FEATURES**

- Adhesive virtually self applies by spontaneously ‘wetting out’ on to smooth surfaces
- Enables very low pressure lamination
- Cleanly removable, even after extended periods of time
- Able to be repositioned, repeatedly
- Ultra low peels with no buildup
- High shear resistance prevents displacement
- Supplied on an anti-glare, scratch and chemically resistant film

**BENEFITS**

- Enables optical quality laminations in the field by unskilled end user
- Reduces damage to surface of touch screen or display
- Protects optical quality of display or touch screen surface
- Excellent stylus registration in touch screens
- Environmentally durable
- Easily die cut to fit intended display surface dimensions

**PRODUCT APPLICATIONS**

Suggested for temporary protection to the surface of touch screens and flat panel displays in high use, abusive or harsh environments. Removability enables protection film to be replaced when damaged, protecting the more sensitive and expensive display device below. 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**

90 Gloss, Anti-Glare Hardcoated Polyester .003" (75µm) 3H Pencil Hardness (ASTM D3363)
Self Wetting Adhesive .002" (51µm)
Polyester Liner .0015" (38µm)

**ADHESIVE PERFORMANCE PROPERTIES – TYPICAL VALUES**

180º Peel Adhesion, 12”/min.
5min dwell from glass 6 g/in.

180º Peel Adhesion, 12”/min.
24 hours dwell from glass 6 g/in.

Reference Test Methods:
PSTC-101, ASTM D-3330, ART #1005

**OPTICAL PROPERTIES – TYPICAL VALUES**

<table>
<thead>
<tr>
<th></th>
<th>Self Wetting Adhesive</th>
<th>AG 90 Film</th>
<th>Test Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refractive Index</td>
<td>1.468</td>
<td>1.52</td>
<td></td>
</tr>
<tr>
<td>Visible Light Transmission</td>
<td>99%</td>
<td>90%</td>
<td>Gardner haze meter</td>
</tr>
<tr>
<td>Haze</td>
<td>&lt;0.5</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Clarity</td>
<td>99%</td>
<td>68%</td>
<td></td>
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</tbody>
</table>
ARclear® 92170
Developmental Self Wetting Adhesive Surface Protection Film
Anti-Glare Hardcoated Film with Self Wetting Adhesive

ENVIRONMENTAL AGING DATA

<table>
<thead>
<tr>
<th>Condition</th>
<th>Shelf Stability</th>
<th>Quality of Lamination</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chemistry</td>
<td>Adhesion</td>
</tr>
<tr>
<td>80°C 240 hours</td>
<td>Stable</td>
<td>No change</td>
</tr>
<tr>
<td>-30°C 240 hours</td>
<td>Stable</td>
<td>No change</td>
</tr>
<tr>
<td>-30°C to 70°C</td>
<td>Stable</td>
<td>No change</td>
</tr>
</tbody>
</table>

STORAGE AND SHELF LIFE

One year when stored at 22°C, 50% R.H.

SERVICE TEMPERATURE RANGE

Recommended minimum application temperature: 40°F (5°C)

Avoid prolonged exposure to water.

Product construction, adhesive thickness and level can be tailored to application needs.

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.

(Revised 12/02/08)

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.

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