Adhesive Transfer Tapes with Plasticizer Resistant Adhesive
F9465PC • F9467U

Technical Data

February, 2015

Product Description

3M™ Adhesive Transfer Tapes F9465PC and F9467U are acrylic pressure sensitive adhesives which have been formulated for bonding to many flexible vinyls and provide outstanding resistance to the effects of plasticizer migration from flexible vinyls.

Construction Information

<table>
<thead>
<tr>
<th>Product</th>
<th>Adhesive Thickness (mils (mm))</th>
<th>Liner Type</th>
<th>Liner Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>F9465PC</td>
<td>5 mils (0.13 mm)</td>
<td>Printed Tan Polycoated Paper 4.2 mils (0.1 mm)</td>
<td></td>
</tr>
<tr>
<td>F9467U</td>
<td>3.5 mils (0.10 mm)</td>
<td>Tan Polycoated Paper 4.2 mils (0.1 mm)</td>
<td></td>
</tr>
</tbody>
</table>

Note: The thickness listed is based on a calculation from manufacturing controlled adhesive coat weights using a density of 1.012 g/cc. While past data pages have listed nominal thicknesses, the coat weight (and theoretical caliper) has not changed.

Typical Physical Properties and Performance Characteristics

I. Adhesion Peel: ASTM D-3330 (Method E).
   a. Stainless Steel Substrate

<table>
<thead>
<tr>
<th>Product</th>
<th>72 hour dwell</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>180°</td>
</tr>
<tr>
<td>F9465PC</td>
<td>74 oz/in</td>
</tr>
<tr>
<td></td>
<td>20.6 N/25mm</td>
</tr>
<tr>
<td>F9467U</td>
<td>64 oz/in</td>
</tr>
<tr>
<td></td>
<td>17.8 N/25mm</td>
</tr>
</tbody>
</table>
3M™ Adhesive Transfer Tapes with Plasticizer Resistant Adhesive
F9465PC • F9467U

Typical Physical Properties and Performance Characteristics (continued)

II. Static Shear Strength

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Size</th>
<th>Weight</th>
<th>Minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>72°F (23°C) 50% RH</td>
<td>1/2&quot; x 1&quot;</td>
<td>500 grams</td>
<td>10,000</td>
</tr>
</tbody>
</table>

*Test terminated at 10,000 minutes

Environmental Performance

Bond Build-up: The bond strength of 3M™ Plasticizer Resistant Adhesive increases as a function of time and temperature.

Temperature/Heat Resistance: 3M™ Plasticizer Resistant Adhesive is usable for short periods (minutes, hours) at temperatures up to 200°F (94°C) and for intermittent longer periods (days, weeks) up to 160°F (71°C).

Lower Temperature Service Limit: -40°F (-40°C).

UV Resistance: When properly applied, parts are not adversely affected by outdoor exposure.

General Information

Note: Vinyl formulations differ and plasticizer types and amounts can vary. The most common types of plasticized vinyl contain low molecular weight materials (plasticizers) which tend to migrate out of the vinyl. In the case of adhesive bonding, these plasticizers migrate into the adhesive which can cause softening of the adhesive and loss of bond strength over time.

- The possible effect of plasticizer migration on an adhesive bond can be predicted by accelerated aging for 5 days at elevated temperature (150°F [65°C]). Note: Due to the variability of vinyl formulations, we strongly recommend that the user test each vinyl substrate to determine suitability of the tape for the particular application.

- Natural and synthetic rubber materials such as neoprene and EPDM are also formulated with fillers and plasticizers. Note: 3M™ Adhesive Transfer Tape F-9465PC and F9467U does not resist the effects of these particular fillers and plasticizers and is not recommended for use in bonding these materials.

Application Ideas

- Attaching flexible vinyl graphics to sporting helmets
- Attaching flexible vinyl films and graphics to signs
- Attaching flexible vinyl graphics to vehicles
- Attaching flexible vinyl graphics to collectibles
- Attaching flexible vinyl tubing

Master Width

<table>
<thead>
<tr>
<th>Product</th>
<th>Master Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>F9465PC</td>
<td>54&quot;</td>
</tr>
<tr>
<td>F9467U</td>
<td>54&quot;</td>
</tr>
</tbody>
</table>

More sizes may be available. Please call 800-223-7427 or talk to your local 3M representative for more information.
Storage

It is suggested that products are stored at room temperature conditions of 70°F (21°C) and 50% relative humidity.

Shelf Life

If stored properly, product retains its performance and properties for 18 months from date of shipment.

Recognition/Certification

TSCA: This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements.

MSDS: 3M has not prepared a MSDS for this product which is not subjected to the MSDS requirements of the Occupational Safety and Health Administration’s Hazard Communication Standard, 29 C.F.R.1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, this product should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.

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