Z-Ultimate 4000T Resist

FEATURES
- Thermal transfer, gloss polyester label with a high-performance permanent acrylic adhesive
- Unparalleled smear/scratch resistance
- Excellent durability and chemical resistance
- Meets automotive wire-harness durability requirements when using 6200 or Image Lock resin ribbons
- Available in white (10026487RM)

MATERIAL CONSTRUCTION

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Caliper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facestock</td>
<td>White coated polyester</td>
<td>2.0 mil</td>
</tr>
<tr>
<td>Adhesive</td>
<td>Permanent, acrylic-based</td>
<td>1.0 mil</td>
</tr>
<tr>
<td>Liner</td>
<td>50 lb. semi-bleached, kraft stock</td>
<td>3.2 mil</td>
</tr>
<tr>
<td></td>
<td>TOTAL ± 10%</td>
<td>6.2 mil</td>
</tr>
</tbody>
</table>

ADHESIVE STRENGTH

<table>
<thead>
<tr>
<th>Material</th>
<th>Initial (5 min)</th>
<th>Final (24 hrs)</th>
<th>180 Degree Peel Adhesion (oz/in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless Steel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polycarbonate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyethylene</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TEMPERATURE PERFORMANCE

<table>
<thead>
<tr>
<th>Minimum Application Temperature</th>
<th>Service Temperature</th>
<th>Optimal Storage Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>50° F (10° C)</td>
<td>-40° F to 302° F</td>
<td>72° F (22° C) at 50% RH</td>
</tr>
</tbody>
</table>

CHEMICAL RESISTANCE

<table>
<thead>
<tr>
<th>Chemical</th>
<th>6200</th>
<th>5095</th>
<th>Image Lock</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Body Fluid</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Salt Water</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Water</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Window Cleaner</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Alcohol</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Ammonia</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Bleach</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>IPA</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Gasoline</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Grease</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Oil</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Acetone</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
</tr>
<tr>
<td>IR Reflow</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
</tr>
<tr>
<td>MEK</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
</tr>
<tr>
<td>TCE</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
</tr>
<tr>
<td>Xylene</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
</tr>
</tbody>
</table>

SUGGESTED APPLICATIONS
- Product identification
- Automotive labeling

Expected Exterior Life
3 years

For more information, visit www.zebra.com/supplies

All products should be pre-tested to ensure it meets all intended requirements of specific end-use applications.
Z-Ultimate 4000T Resist

Additional detail on wire-harness testing performed with 6200 and Image Lock ribbons-

- Salt Spray test - DIN/EN ISO 9227-NSS/B117 (1008 hrs)
- Condensation Chamber Test – DIN/EN ISO 6270-2-CH (6 weeks)
- Corrosion Cycle Test – VDA 621-415 (8 weeks)
- Adhesion testing – FTM1
- Adhesion to print/inscription – DIN 58196-6
- Abrasion test – Imprint (CS17 wheel / 500g load / 40 cycles)
- Fam Test Fuel, Diesel Fuel, Brake Fluid, Anti-Freeze, Engine Oil, Ethanol, Cleaning Solvent, Oils/Grease, Acetone
- UV Resistance/Stability – PV1323
- Thermal Stability for print/inscription – (-40 C to 150 C)
- Thermal Cycling Test for print/inscription
- Flag (Adhesive to Adhesive) testing – 168 hr @ 50 C, 168 hr @ 38 C and 85% RH, 168 hr @ -20 C
- Shock Test – 5 cycles, 24 hr @ 80 C, 24 hr @ -40 C
- Storage Test for print/adhesive – 192 hrs @ 120 C

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