8000T Low-Temp Matte

FEATURES
- Thermal transfer, matte polyolefin label with a cold-temp permanent acrylic adhesive
- Offers -112° F performance for low-temperature use; provides resistance to repeated freeze and thaw cycles
- Some smear/scratch and chemical resistance
- Very good resistance to dirt, blood, and water
- Excellent conformability to tight diameters
- Available in white (05227RM)

MATERIAL CONSTRUCTION

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Caliper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facestock</td>
<td>White corona-treated polyolefin</td>
<td>3.5 mil</td>
</tr>
<tr>
<td>Adhesive</td>
<td>Permanent, acrylic-based</td>
<td>0.8 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><strong>TOTAL ± 10%</strong></td>
<td>7.5 mil</td>
</tr>
</tbody>
</table>

ADHESIVE STRENGTH

![Adhesive Strength Graph]

CHEMICAL RESISTANCE

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Suggested Ribbon</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6100</td>
</tr>
</tbody>
</table>

- **Weak**
  - Blood
  - Body Fluid
  - Salt Water
  - Water
  - Window Cleaner
- **Moderate**
  - Alcohol
  - Ammonia
  - Bleach
  - IPA
- **Harsh**
  - Gasoline
  - Grease
  - Oil
- **Extreme**
  - Acetone
  - IR Reflow
  - MEK
  - TCE
  - Xylene

- Recommended
- Test in Your Application
- NR Not Recommended

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>-112° F to 200° F (-80° C to 93° C)</td>
<td>72° F (22° C) at 50% RH</td>
</tr>
</tbody>
</table>

Expected Exterior Life
1 year

SUGGESTED APPLICATIONS
- Medical labs
- Hospitals
- Cold temp industrial/manufacturing applications

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.
8000T Low-Temp Matte

Cold Temperature Testing Results:

<table>
<thead>
<tr>
<th>Condition</th>
<th>Adhesive Durability</th>
<th>Maximum Flagging</th>
<th>Print Quality</th>
<th>Peel from vial (avg. oz/in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room temperature</td>
<td>No Change</td>
<td>1mm</td>
<td>No Change</td>
<td>31</td>
</tr>
<tr>
<td>Thermal Cycled Labels</td>
<td>No Change</td>
<td>1mm</td>
<td>No Change</td>
<td>26</td>
</tr>
</tbody>
</table>

Test Procedure:

Thermal cycled samples went through six freezing (-80C+/-4C for 22 hours) and thawing (23 C +/- 2C) cycles. At the appropriate time, they were pulled every cycle for immediate inspection and one-hour room temperature testing. They were returned to the freezer two hours after being pulled for evaluation.

Cryogenic Vials:

5ml cryogenic vials from Nalgene Cryoware Catalog #5000-0050, Lot#311770 Vials filled with 2.5 ml of saline solution and capped.

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For more information, visit [www.zebra.com/supplies](http://www.zebra.com/supplies)

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