**3M™ Durable Tire Label Material**

**FV052**

### Technical Data  
May 2006

### Product Description

3M™ Durable Tire Label Material FV052 is a white vinyl label stock that offers durability and conformability. It utilizes 3M™ Adhesive P1110, which is designed for labeling tires when used with tire wash. This adhesive exhibits high initial tack, yet resists edge bleed and cold flow.

### Construction

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Facestock</th>
<th>Adhesive</th>
<th>Liner</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M™ Durable Tire Label Material FV052</td>
<td>.0035 in. Soft White Vinyl TC2</td>
<td>P1110 Perm. 26</td>
<td>50# SC 3.1 mil semi-bleached super calendered kraft sheet</td>
</tr>
</tbody>
</table>

(Calipers are nominal values)

### Features

- The polymerically plasticized nature of this soft, flexible vinyl imparts long term dimensional stability for demanding applications.

- Meets CONEG requirements.

- Adhesive dry ingredients are listed by FDA as indirect food contact additives when used in food packaging with minimum opportunity for exposure (See 21 CFR 175.105).

- Liner is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.

### Application Ideas

- Retread tires
- Waxy surfaces
- UV coated corrugated
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Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Adhesion properties determined per TLM method using 1.0 mil polyester with 1.0 mil of adhesive on a polished stainless steel panel.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Method/Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peel Adhesion</td>
<td>4.0 lbs./in. (704 N/m)</td>
<td>TLM Method, 180° Peel, 12”/min., 1” wide sample</td>
</tr>
<tr>
<td>Loop Tack</td>
<td>4.0 lbs./in. (704 N/m)</td>
<td>TLM Method, 12”/min., 1” wide sample</td>
</tr>
<tr>
<td>Shear</td>
<td>5 hours</td>
<td>TLM Method, 0.25 in² x 500g</td>
</tr>
<tr>
<td>Adhesive Coat Weight</td>
<td>2.5 g/100 in² ± 10%</td>
<td>3M Method E10MFP01</td>
</tr>
<tr>
<td>Release Range</td>
<td>15 to 50 g/2 in.</td>
<td>TLM Method, 180° removal, 300 in./min.</td>
</tr>
<tr>
<td>Service Temperature</td>
<td>40°F to 155°F (5°C to 68°C)</td>
<td></td>
</tr>
<tr>
<td>Application Temperature</td>
<td>55°F to 110°F (13°C to 43°C)</td>
<td></td>
</tr>
</tbody>
</table>

**Printing**

Semi-gloss vinyl topcoating designed for use on tire label products. For use with water-based flexo film inks.

**Storage Conditions**

Store under normal conditions of 70°F (21°C) and 50% relative humidity. To minimize the effects of humidity on the products, package the die-cut and printed stock in polyethylene bags. Low density polyethylene (2-4 mils) can help prevent humidity penetration.
Shelf Life

To obtain best performance, use this product within two years from date of manufacture.

Technical Information

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ISO 9001

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

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