



# White Polypropylene Label Product

## FP016102

Technical Data

July, 2006

### Product Description

3M™ White Polypropylene Label Product FP016102 is a glossy white opaque material that offers excellent durability and moisture resistance. This label product utilizes 3M™ Adhesive F2201, which is a freezer grade acrylic that offers high initial tack, good clarity, and adhesion when applied at temperatures as low as 0°F (-18°C). 3M adhesive F2201 also has excellent processing characteristics and offers exceptional adhesion to a wide variety of substrates with moderate resistance to water and humidity.

### Construction

| Facestock                          | Adhesive         | Liner                                                     |
|------------------------------------|------------------|-----------------------------------------------------------|
| .0023 in. White Polypropylene TC2S | F2201 Freezer 16 | 50# SC 3.1 mil semi-bleached super calendered kraft sheet |

(Calipers are nominal values)

### 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 TLMI Method using 1.0 mil polyester with 1.1 mil of adhesive on a polished stainless steel panel.

|                         |                                  |                                                  |
|-------------------------|----------------------------------|--------------------------------------------------|
| Peel Adhesion           | 2.0 lbs./in. (387 N/m)           | TLMI Method, 180° Peel, 12"/min., 1" wide sample |
| Loop Tack               | 2.0 lbs./in. (387 N/m)           | TLMI Method, 12"/min., 1" wide sample            |
| Shear                   | 1 hour                           | TLMI Method, 1 in <sup>2</sup> x 1000g           |
| Adhesive Coat Weight    | 1.55 g/100 in <sup>2</sup> ± 10% | 3M Method E10MFP01                               |
| Release Range           | 15 to 50 g/2 in.                 | TLMI Method, 180° removal, 300 in./min.          |
| Service Temperature     | -40°F to 140°F (-40°C to 60°C)   |                                                  |
| Application Temperature | 0°F to 120°F (-18°C to 49°C)     |                                                  |

### Features

- 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.

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|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Printing</b>                    | <ul style="list-style-type: none"><li>• Label is topcoated to accept most film ink systems.</li></ul> <p><b>Water-based Flexo inks:</b><br/>Akzo Nobel Hydro Film 4000 Series<br/>Water Ink Technologies, Inc. Versifilm</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Application Ideas</b>           | <ul style="list-style-type: none"><li>• Durable goods, product ID, frozen foods.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage Conditions</b>          | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Shelf Life</b>                  | To obtain best performance, use this product within two years from the date of manufacture.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



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