



## Technical Data Sheet

3M™ Matte White Polypropylene Durable Label Material FP010609



Additional Info

### Product Description

3M™ Matte White Polypropylene Durable Label Material FP010609 is a matte white opaque material that offers durability and moisture resistance. This label product utilizes 3M™ Adhesive P1410, which is a general purpose permanent tackified acrylic that offers adhesion to a wide variety of substrates, including polyolefins.

### Product Features

- Liner for 3M™ Matte White Polypropylene Durable Label Material FP010609 is used when high strength and caliper control are important.
- Recommended for high speed labeling applications or where clarity of the adhesive is critical.

### Technical Information Note

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

### Typical Physical Properties

Attribute Name	Value
Adhesive Type	P1410 Perm. 18
Facestock	White Polypropylene EDP
Adhesive Coat Weight	1.75 g/100 in <sup>2</sup> ± 10%

Attribute Name	Value
Facestock Thickness	0.071 mm (2.8 mil)
Liner	Clear Polyester
Liner Thickness	0.038 mm (1.5 mil)

### Construction Tested

Adhesion properties determined per TLMI Method using 1.0 mil polyester with 1.1 mil of adhesive on a polished stainless steel panel.

### Typical Performance Characteristics

Test Method: TLMI

Attribute Name	Temperature	Substrate	Value
180° Peel Adhesion	23 °C (73 °F)	Stainless Steel	5.28 N/cm (48 oz/in) <sup>1</sup>
Liner Release	23 °C (73 °F)		2 — 5.9 g/cm (10 — 30 g/2 in) <sup>2</sup>
Shear Adhesion			1 h <sup>3</sup>
Loop Tack			3.16 N/cm (28.8 oz/in) <sup>1</sup>

<sup>1</sup> 300 mm/min (12 in/min)

<sup>2</sup> 180° removal, 300 in/min

<sup>3</sup> 0.25 in<sup>2</sup> x 500g

Attribute Name	Value
Application Temperature	5 — 49 °C (40 — 120 °F)
Long Term Temperature Resistance	104 °C (220 °F) <sup>1</sup>
Minimum Long Term Temperature Resistance	-29 °C (-20 °F) <sup>1</sup>

<sup>1</sup> Long Term (day, weeks)

Attribute Name	Value
Note	Calipers are nominal values

## Printing

Matte coating is designed for use in thermal transfer applications and is also compatible with a wide variety of water-based, UV and solvent flexo inks. Also accepts UV screen inks.

## Handling/Application Information

### Application Examples

Drum labels, shrinkwrap, plastic bottles.

## Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in a sealed plastic bag, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

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## ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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