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Technical Data Sheet

3M™ MC Polyester Durable Label Material FM01961K

Product Description

3M™ MC Polyester Durable Label Materials are white durable, high performance microcavitated polyester materials that offer thermal stability and moisture resistance. These polyester labels utilize 3M™ Adhesive F2201, which offers high initial tack, clarity and adhesion when applied at low temperatures and processing characteristics.

Product Features

- Meets CONEG requirements.
- Can be applied at temperatures as low as 0°F (-18°C).
- Adhesive offers exceptional adhesion to a wide variety of substrates with moderate resistance to water and humidity.
- Liner for 3M™ MC Polyester Durable Label Material FM0961K has a special surface finish to enhance feed and reduce static problems. Ideal for copier and many desktop laser applications.

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	F2201 16
Facestock	White Polyester MC
Conformability	Semi-rigid - Label is suitable for flat or slightly curved surfaces.
Adhesive Coat Weight	1.55 g/100 in ² ± 10%

Attribute Name	Value
Facestock Thickness	0.051 mm (2 mil)
Liner	83# Laser stabilized bleached kraft sheet
Liner Thickness	0.15 mm (5.9 mil)

Construction Tested

Adhesion properties determined per TLMI Method using 1.0 mil polyester with 0.9 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	3.87 N/cm (32 oz/in) ¹
Liner Release	23 °C (73 °F)		10 – 29.5 g/cm (50 – 150 g/2 in) ²
Shear Adhesion			1 h ³
Loop Tack			3.87 N/cm (32 oz/in) ¹

¹ 300 mm/min (12 in/min)

² 180° removal, 300 in/min

³ 0.25 in² x 500g

Attribute Name	Value
Application Temperature	-18 — 49 °C (0 — 120 °F)
Long Term Temperature Resistance	150 °C (302 °F) ¹
Minimum Long Term Temperature Resistance	-29 °C (-20 °F) ¹

¹ Long Term (day, weeks)

Attribute Name	Value
Note	Calipers are nominal values

Printing

Special topcoat is designed for print receptivity with most film ink systems, thermal transfer, copiers and laser printers.

Water-based Flexo inks:

Akzo Nobel Hydro Film 4000 Series
Arcar Ultra Film Series 5 Inks
Water Ink Technologies, Inc. Versifilm

Ribbons:

Sony 4070
Sony 4075
Sony 5070
limak SP330

Handling/Application Information

Application Examples

Durable goods, nameplates, product ID labels and drum labels.

Industry Specifications

Meets CONEG requirements

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.

Information

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ISO Statement

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

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