



Technical Data Sheet

3M™ Indoor UL Recognized Computer Imprintable White Polyester Durable Label Material FM16K



[Regulatory Info/SDS](#)

Product Description

3M™ Indoor UL Recognized Computer Imprintable White Polyester Durable Label Materials are durable high performance materials that offer thermal stability and moisture resistance. These products are suitable for demanding applications such as nameplates and product ID labels. These polyester labels utilize 3M™ Adhesive P1212 which is a high clarity general purpose acrylic emulsion for use on overlamination and decorative films that exhibits initial tack, die cutting properties, minimal cold flow, and UV resistance.

Product Features

- Meets CONEG requirements.
- Liner for 3M™ Indoor UL Recognized Computer Imprintable White Polyester Durable Label Material FM16K 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	P1212 Perm. 18
Facestock	White Polyester EDP
Adhesive Coat Weight	1.75 g/100 in ² ± 10%

Attribute Name	Value
Facestock Thickness	0.051 mm (2 mil)
Liner	77# Laser stabilized bleached kraft sheet
Liner Thickness	0.12 mm (4.6 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	22 °C (72 °F)	Stainless Steel	5.28 N/cm (48 oz/in) ¹
Liner Release	22 °C (72 °F)		50 — 150 g/2 in ²
Shear Adhesion			3 h ³
Loop Tack			3.16 N/cm (28.8 oz/in) ¹

¹ 12 in/min (300 mm/min)

² 180° removal, 300 in/min

³ 0.25 in² x 500g

Attribute Name	Value
Application Temperature	5 — 49 °C (40 — 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

An absorbent matte topcoating designed for computer imprinting applications, including dot matrix and laser. Also accepts flexo and thermal transfer printing and can be written on with ball point pens and markers (the end user should fully evaluate specific ribbons for suitability).

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
 Iimак SP330

Handling/Application Information

Application Examples

Durable goods, nameplates, product ID labels.

Industry Specifications

UL Recognized, File PGGU2.MH11410, Marking & Labeling System Materials - Component, ANSI/UL 969
 UL Recognized, File PGJ12.MH16411, Printing Materials - Component, ANSI/UL 969
 CSA Group Certified, File 99316 Class 7922, Adhesive-Type Labels - Label Stock, CSA-C22.2 No. 0.15-15 Update No. 1
 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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