



# Technical Data Sheet

## 3M™ Indoor UL Recognized Clear Polyester Overlaminate Durable Label Material FM011



Additional Info

### Product Description

3M™ Indoor UL Recognized Clear Polyester Overlaminate Durable Label Materials are durable, high performance materials that offer thermal stability and moisture resistance. These polyester overlaminate labels utilize 3M™ Adhesive P1212, which is a high clarity general purpose acrylic emulsion that exhibits initial tack, die cutting properties, minimal cold flow, and UV resistance.

### Product Features

- Meets CONEG requirements.
- UL recognized for indoor use files MH11410 and MH16411.
- Liner for 3M™ Indoor UL Recognized Clear Polyester Overlaminate Durable Label Material FM011 is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press 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. 16
Facestock	Clear Polyester NTC
Adhesive Coat Weight	1.40 — 1.71 g/100 in <sup>2</sup>

Attribute Name	Value
Facestock Thickness	0.025 mm (1 mil)
Liner	40# SC semi-bleached super calendered kraft sheet
Liner Thickness	0.061 mm (2.4 mil)

Attribute Name	Value
*Note	For all clear film face and clear film liner material combinations, a slight appearance variation may be observed along the roll edge. This effect is due to the facestock's haze tolerance and is further magnified by the clear film liner and multiple wraps of clear films. This variation is not associated with a color shift of the facestock and does NOT negatively affect the labelstock's clarity in the final overlamination application.

Attribute Name	Value
Convertability	3M™ General Purpose Acrylic Adhesive P1212 is designed to be compatible with a variety of print methods and indoor end use applications. Adhesive processing issues are not anticipated when proper roll tensions, handling and storage conditions are used. Please refer to the die cutting/converting section of this data page or the “Guide to Converting and Handling Label Products” technical bulletin for additional information.

### **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	5.28 N/cm (48 oz/in) <sup>1</sup>
Liner Release	23 °C (73 °F)		1 – 4.9 g/cm (5 – 25 g/2 in) <sup>2</sup>
Shear Adhesion			3 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	125 °C (257 °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**

This film is not treated for printability.

## **Handling/Application Information**

### **Application Examples**

Overlamine for labels used on durable goods, nameplates and product ID's.

### **Application Techniques**

For maximum bond strength, surface should be clean and dry. A typical cleaning solvent is heptane or isopropyl alcohol. **Note:** Consult the manufacturer's MSDS for proper handling and storage of solvents. For best conditions, application surface should be at room temperature or higher. Low temperature surfaces (below 10°F [-12°C]) can cause the adhesive to become so firm that it will not develop contact with the substrate. Higher initial bonds are achieved through increased rub down pressure.

## **Industry Specifications**

UL recognized for indoor use (Files MH11410 and MH16411)

## **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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