



# Technical Data Sheet

## 3M™ Overlaminating Film 7735FL



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### Product Description

3M™ Overlaminating Film 7735FL utilizes an outdoor durable film facestock with UV resistance, combined with 3M™ Adhesive 400 and a film liner. This product offers clarity and provides at least ten years of outdoor life, when used with 3M™ Polyester Label Stocks, as explained below.

**Note:** Due to a special manufacturing process used to make the 3.0 mil clear acrylic film, a color variation can result. The extent of residual color will vary from lot to lot. To minimize the effects of this variation we do try to keep face lots together so that a color change is not seen across a splice.

### Product Features

- UL Recognized file MH11410

### 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	#400 Acrylic
Facestock	Clear Film
Adhesive Coat Weight	1.21 — 1.49 g/100 in <sup>2</sup>

Attribute Name	Value
Adhesive Thickness	0.02 mm (0.8 mil)
Facestock Thickness	0.076 mm (3 mil)
Liner	Clear Polyester
Liner Thickness	0.038 mm (1.5 mil)

Attribute Name	Value
Convertability	Low temperature, high clarity 3M™ Acrylic Adhesive 400 is specifically designed to be compatible with a variety of print methods and overlaminate applications. When converting labels for thermal transfer applications, care should be taken with regard to proper roll tensions, handling and storage conditions. 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.

## Typical Performance Characteristics

### 180° Peel Adhesion

Temperature: 23 °C (73 °F)

Test Method: ASTM D3330

Dwell Time	Substrate	Value
10 min	Polyester (PET)	Destructs upon removal N/cm <sup>1</sup>
10 min	Polypropylene (PP)	2.1 N/cm (19 oz/in) <sup>1</sup>
10 min	Stainless Steel	2.7 N/cm (25 oz/in) <sup>1</sup>
72 h	Polyester (PET)	Destructs upon removal N/cm <sup>1</sup>
72 h	Polypropylene (PP)	2.1 N/cm (19 oz/in) <sup>1</sup>

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

Temperature: 23 °C (73 °F)

Attribute Name	Test Method	Dwell Time	Substrate	Value
Liner Release	TLMI			1 — 10.8 g/cm (5 — 55 g/2 in) <sup>1</sup>
180° Peel Adhesion	ASTM D3330	72 h	Stainless Steel	Destructs upon removal N/cm <sup>2</sup>

<sup>1</sup> 180° removal, 300 in/min

<sup>2</sup> 300 mm/min (12 in/min)

Attribute Name	Value
Minimum Application Temperature	-12 °C (10 °F)
Long Term Temperature Resistance	79 °C (175 °F) <sup>1</sup>
Minimum Long Term Temperature Resistance	-40 °C (-40 °F) <sup>1</sup>

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

Attribute Name	Value
Note	Calipers are nominal values

## Typical Environmental Characteristics

### Chemical and Environmental Exposure

Samples were applied to stainless steel panels and allowed to dwell for 24 hours prior to exposures.

Liquid Dwell Time/Exposure Condition Results

Isopropyl Alcohol @ Room Temperature 4 hours No change

Detergent @ Room Temperature 4 hours No change

Engine Oil @ Room Temperature 4 hours No change

Water @ Room Temperature 48 hours Cloudy

## Humidity Resistance

1 day at 100°F (38°C) and 100% relative humidity: Cloudy

## Temperature Resistance

175°F (79°C) for 1 day: No change

-40°F (-40°C) for 1 day: No change

## Outdoor Weatherability

Minimum outdoor life is 10 years when used with 3M™ Polyester Label Stocks and then applied to a vertical surface. At 10 years of constant outdoor exposure, 3M™ Overlaminating Film 7735FL will retain enough clarity so that the printing beneath that has not faded will remain legible. Performance may vary depending on the ink or other wear from the environment such as chemicals or contaminants, abrasion or other factors. It is strongly suggested that the label be tested in the application to ensure best performance.

No claim can be made regarding outdoor life of inks used in the manufacture of a label or decal. 3M™ Overlaminating Film 7735FL can reduce color fade with some, but not all inks. It is strongly recommended that the ink supplier be contacted for ink recommendations.

## Printing

This film is not treated for printability

## Handling/Application Information

### Application Examples

- Protective overlam designed for labels that are used in outdoor applications.
- Overlam can be paired with destructible facestocks as to not interfere with their destructibility.

### 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 maximum contact with the substrate. Higher initial bonds are achieved through increased rub down pressure.

## Industry Specifications

UL Recognized, File PGGU2.MH11410, Marking & Labeling System Materials - Component, ANSI/UL 969

## Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 12 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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