



Clear Polyester Overlaminating Film 7784

Product Data Sheet

Updated : July 2000
Supersedes : July 1995

Physical Properties
Not for specification purposes
(Calipers are nominal values)

Facestock	25 micron (1.0 thou) Clear Polyester
Adhesive	20 micron (0.8 thou) Ultra Clear-50 Acrylic
Liner	86 micron (3.4 thou) , 72gm ² (44#) Poly-Coated Kraft
Shelf Life	12 months from date of manufacture by 3M when properly stored at 22°C & 50 % Relative Humidity

Features:

- Excellent all-purpose overlaminating film at a competitive price.
- Premium clarity film will not impart haze on underlying graphics.
- 72gm² (44#) Poly-Coated Kraft liner combined with the Ultra Clear-50 Adhesive provides exceptional wet-out characteristics.
- Excellent abrasion, humidity, and solvent resistance.
- Ultra Clear-50 Emulsion Acrylic Adhesion offers excellent adhesion to a wide variety of surfaces

Application Ideas:

- Protective overlaminate for label and nameplate graphics can be used on appliances, industrial equipment, tools etc.
- Graphics requiring a high-gloss appearance.

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Surface	Adhesive Performance 180° Peel, 10 min Dwell (ASTM 3330)	
	Initial 10 min. Dwell N/10mm	Conditioned for 3 days at room temperature - N/10mm
Stainless Steel	2.6	4.5
Polyester	4.2	5.6

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Liner Release	180 Degree liner removal	
	Rate of Removal	Gram/25mm Width
	2.3 m/minute	15
	7.2 m/minute	69

Environmental Performance

The properties defined are based on four-hour immersions at room temperature, unless otherwise noted. Samples were applied to stainless steel 24 hours prior to immersions and were evaluated one hour after removal.

Chemical	Appearance
Isopropyl Alcohol	Slight Edge Penetration
Detergent	No Change
Engine Oil at 250°F (121°C)	No Change
Water for 48 hours	No Change

Temperature Resistance

300°F (149°C) for 10 days	Slight Yellowing
-40°F (-40°C) for 10 days	No Change

Agency Approval

U.L. approval applied for

Processing

Printing:

Untreated polyester facestock

Die Cutting:

Rotary or flat-bed process

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Special Considerations For maximum bond strength, surface should be thoroughly cleaned and dried. A typical cleaning solvent is heptane or isopropyl alcohol. Consult the manufacturers Material Safety Data Sheet for proper handling and storage of solvents.

For best bonding conditions, application surface should be at room temperature or slightly higher. Low temperature surfaces, below 10 degrees C, 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. Use maximum laminating pressure for best results.

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications.

This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



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