



Double Lined Laminating Adhesive 7955MP

Product Data Sheet

Updated : April 2004
Supersedes : July 2000

Physical Properties

Not for specification purposes

Release Liner 1	0.10mm 58# Polycoated Kraft
Adhesive	0.127mm #200 "Hi-Performance" Acrylic
Liner 2	0.05mm 58# Polycoated Kraft
Shelf Life	24 months from date of manufacture when stored in cartons at 70°F at 50% relative humidity.

Features:

- Long term environmentally stable bond.
- Smooth adhesive for high quality appearance on thin graphic overlays.
- High cohesive strength to withstand repeated stresses from switch activation.
- High temperature, humidity, and chemical resistance.

Applications

- Attachment of graphic overlay to membrane switch or keyboard.
- Attachment of membrane switch to product housing.
- Lamination to polyester for membrane spacers.

Date : April 2004
 Double Lined Laminating
 Adhesive 7955MP

Properties and Performance
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Temperature Range	Low : -40°F (-40C) High Long Term (days/weeks) : 300°F (149°C). High Short Term (minutes/hours) : 400°F (204°C).
Chemical Resistance	Solvent resistance is excellent when this product is properly applied to impervious materials. The adhesive resists softening through edge contact with mild acids, alkalis, oil, gasoline, Kerosene, JP-4 fuel and many other solvents. Not recommended for total immersion.
Dielectric Strength (ASTM D149)	0.95 KV/mil
Insulation Resistance (ASTM P257)	N.A. ohms
Volume Resistivity (ASTM D257)	2.2×10^{15} ohm-cm
Surface Resistivity (ASTM D257)	1.3×10^{14} ohms/square
Moisture & Humidity Resistance	No adverse effect on the bond after exposure to 100% Relative Humidity at 100°F.
Bond Build Up	The bond strength of Scotch #200 Hi-Performance Acrylic adhesive increases as a function of time and temperature.
U.V. Resistance	Adhesive is very resistant to oxidation and ozone when exposed to air or sunlight (U.V.).

Adhesion Properties
 Not for specification purposes

ASTM D903 180° peel 12"/minute 1 mil polyester to stainless steel	
N/ 10mm	9.6

3M test 90° peel 12/Minute 8 mil aluminium to various surfaces		
	72 hour Dwell N/10mm	Ultimate Bond N/10mm
Stainless Steel	18.0	27.0
Epoxy	17.2	23.6
Polyester	14.2	15.6
Polycarbonate	18.8	21.8
ABS	19.0	14.6

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- Application Techniques**
- Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure develops better adhesive contact and thus improves bond strength.
 - To obtain optimum adhesion, the bonding surfaces must be clean, dry and smooth. Some typical surface cleaning solvents are isopropyl alcohol or heptane. Observe proper safety precautions when handling solvents.
 - Ideal tape application temperature range is 70°F to 100F (21°C to 38°C).
 - Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

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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.



Tapes & Adhesives Group

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3M United Kingdom PLC
3M Centre
Cain Road,
Bracknell, Berkshire,
RG12 8HT

Product Information :
Tel 0870 60 800 50
Fax 0870 60 700 99

3M Ireland
3M House, Adelphi Centre,
Upper Georges Street,
Dun Laoghaire, Co. Dublin,
Ireland

Customer Service :
Tel (01) 280 3555
Fax (01) 280 3509