



Laminating Adhesive 9472LE

Product Data Sheet

Updated : July 2000
Supersedes : December 1994

Physical Properties

Not for specification purposes

Adhesive	5.0 thou (127 micron) #300LSE "Hi-Strength" Acrylic
Liner	4.0 thou (100 micron) 94g/m ² 58# Polycoated Kraft
Shelf Life	24 months from date of manufacture when stored in cartons at 70°F at 50% relative humidity.

Features:

- 300 LSE "Hi-Strength" Acrylic Adhesive provides very high bond strength to most surfaces, including low surface energy plastics.
- Extremely smooth, non-fibred adhesive for excellent graphic appearance.
- Excellent bond to plastics and low surface energy coatings such as, polypropylene and powder coated paints, combined with high shear for excellent temperature resistance.
- Excellent adhesion to surfaces contaminated lightly with oil typically used with machine parts.
- 94 g/m² Polycoated Kraft liner for lay flat, moisture stability and excellent processing of plastic graphic overlays.

Applications

- Plastic nameplates or graphic overlays for use on low surface energy plastics.
- Waste removed nameplates on a common sheet for ease of application.
- Graphic application to surfaces such as wood, fabric, plastic, where very high bond strength is required.
- Bonding a variety of foam substrates to metal and plastic surfaces.
- Attaching identification material to oily surfaces typical of machine parts.

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Properties and Performance
(Not for specification purposes)

Bond Build Up	The bond strength of #300LSE "Hi-Strength" Acrylic Adhesive increases as a function of time and temperature, and has very high initial adhesion.
Humidity Resistance	High humidity has minimal effect on adhesive performance. No significant reduction in bond strength is observed after exposure for 7 days at 32°C and 90% relative humidity.
U.V. Resistance	When properly applied, nameplates and decorative trim parts are not adversely affected by exposure.
Water Resistance	Immersion in water has no appreciable effect on the bond strength. After 100 hours at room temperature, the high bond strength is maintained.
Temperature Cycling Resistance	High Bond strength is maintained after cycling four times through:- 4 hours at 70°C 4 hours at -29°C 16 hours at 22°C
Chemical Resistance	When properly applied, nameplate and decorative trim parts will hold securely after exposure to numerous chemicals including oil, mild acids and alkalis.
Temperature Resistance	The #300LSE "Hi-Strength" adhesive is usable for short periods (minutes, hours) at room temperatures up to 148°C, and for intermittent longer periods of time (days, weeks) up to 93°C.
Low Service Temperature	- 40°C

Adhesion Properties
Not for specification purposes

Peel Adhesion - (Newtons/10 mm) ASTM D3330, modified: 90° Peel, 51 micron aluminium backing.		
	15 minute dwell room temp. N/10mm	72 hour room temp. N/10mm
Stainless Steel	11.9	15.3
ABS	11.2	14.0
Polypropylene	12.6	14.9

Processing

Slitting & Die-Cutting:

This adhesive is very aggressive and may be difficult to die cut. Chilling the adhesive to between 2°C and 10°C will improve the processability. In addition, dies can be lubricated with Laminoleum evaporative stamping oil

Roll Laminating:

A combination of metal and rubber rollers with moderate pressure is recommended.

Note: Please refer to the **3M Slitting/Die-Cutting Technical Bulletin** for further details.

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Special Considerations

For maximum bond strength the surface should be thoroughly cleaned and dried. Typical cleaning solvents are heptane or isopropyl alcohol. Consult solvent manufacturer's Material Safety Data Sheet for proper handling and storage instructions.

Bond strength can also be improved with firm application pressure and moderate heat, from 38° C to 54° C, causing the adhesive to develop intimate contact with the bonding surface.

Ideal tape application range is 21° C to 38° C. Initial tape application to surfaces at temperatures below 10° C is not recommended for most pressure sensitive adhesives 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.



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