



High Strength Double Coated Tape with Adhesive 300LSE

9474LE • 9495LE

Technical Data

November, 2008

Product Description

3M™ Double Coated Tapes with 3M™ Adhesive 300LSE provides high bond strength to most surfaces, including many low surface energy plastics such as polypropylene and powder coated paints. The acrylic adhesive also provides excellent adhesion to surfaces contaminated lightly with oil typically used with machine parts.

Construction

Product Number	Total Tape Thickness (w/o liner)	Faceside ¹ Adhesive Type/ Thickness	Carrier Type/ Thickness	Backside ² Adhesive Type/ Thickness	Liner Color, Type, Print	Liner Caliper ³
3M™ Double Coated Tape 9474LE	0.0067" (0.17mm)	0.0028" (0.071mm)	Clear Polyester 0.0005" (0.013mm)	0.0034" (0.086mm)	Faceside Liner/ Tan, 58# Polycoated Kraft, no print Backside liner/ Tan, 58#, Polycoated Kraft, "3M 300LSE"	0.0042" (0.11mm)/ 0.0042" (0.11mm)
3M™ Double Coated Tape 9495LE	0.0067" (0.17mm)	0.0028" (0.071mm)	Clear Polyester 0.0005" (0.013mm)	0.0034" (0.086mm)	Tan, 58#, Polycoated Kraft, "3M 300LSE"	0.0042" (0.11mm)

Note 1: Faceside (FS) adhesive is on the interior of the roll, exposed when unwound.

Note 2: Backside (BS) adhesive is on the exterior of the roll, exposed when liner is removed.

Note 3: The caliper listed is based on a calculation from manufacturing controlled adhesive coat weights using a density of 1.012 g/cc.

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Typical Physical Properties and Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Product Number	3M™ Double Coated Tapes 9474LE, 9495LE
Adhesion to stainless steel ASTM D3330 - 180 degree 2 mil polyester as backing - 72 hour RT	Oz/in (N/100 mm) Faceside / Backside 100 (113) / 105 (119)
Adhesion to stainless steel ASTM D3330 - 90 degree 2 mil al foil - 15 minute RT - 72 hour RT - 72 hour 158°F (70°C)	Oz/in (N/100 mm) Faceside/Backside 70 (79) / 80 (90) 85 (96) / 100 (113) 106 (119) / 130 (147)
Adhesion to other surfaces ASTM D3330 - 90 degree, 2 mil al foil, 72 hour RT	Oz/in (N/100 mm) Faceside / Backside
ABS	100 (124) / 90 (102)
Polypropylene	90 (102) / 80 (90)
Polycarbonate	150 (169) / 140 (158)
Glass	90 (102) / 100 (113)
Shear Strength - ASTM D3654 Modified – (.5 inch ² sample size)	
1000 grams at 72°F (22°C)	>10,000 minutes
500 grams at 158°F (70°C)	>10,000 minutes
Relative High Temperature Operating Ranges:	
Long Term (days, weeks)	200°F (93°C)
Short Term (minutes, hours)	300°F (149°C)
Relative Solvent Resistance:	Very Good

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Available Sizes

Roll length, width, slitting tolerance, core size.

	3M™ Double Coated Tape 9474LE	3M™ Double Coated Tape 9495LE
Maximum Length in:		
1/2" to 63/64"	—	180 yds. (164 m)
1" to 3"	—	360 yds. (329 m)
3" to 48"	—	360 yds. (329 m)
48" to 54"	—	360 yds. (329 m)
Tolerance	—	± 1/32 in. (0.08 mm)
Core ID	—	3.0 in. (76.2 mm)
Sheet Size	24" x 36"	Not Available

Features

- This tape has a film carrier which can add dimensional stability to foams and other substrates and also makes it easier to handle the tape during slitting and die-cutting.
- 3M™ Double Coated Tape 9474LE features a dual liner for ease in selective die cutting.
- The bond strength of 3M™ Adhesive 300LSE increases as a function of time and temperature, and has very high initial adhesion.

Application Techniques

Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure and moderate heat, from 100°F (38°C) to 130°F (54°C), will assist the adhesive in developing intimate contact with the bonding surface.

To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Some typical surface cleaning solvents are isopropyl alcohol or heptane.*

Ideal tape application temperature range is 70°F to 100°F (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.

*Carefully read and follow the manufacturer's precautions and directions for use when working with solvents. These cleaning recommendations may not be compliant with the rules of certain Air Quality Management Districts in California; consult applicable rules before use.

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Environmental Performance

Humidity Resistance: High humidity has minimal effect on adhesive performance. No significant reduction in bond strength is observed after exposure for 7 days at 90°F (32°C) and 90% relative humidity.

UV 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 158°F (70°C)
- 4 hours at -20°F (-29°C)
- 4 hours at 73°F (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.

Application Ideas

- Foam to powder coated painted surfaces.
 - Low surface energy plastic adhesion.
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Application Equipment

To apply adhesives in a wide web format, lamination equipment is required to ensure acceptable quality. To learn more about working with pressure-sensitive adhesives please refer to technical bulletin, *Lamination Techniques for Converters of Laminating Adhesives* (70-0704-1430-8).

For additional dispenser information, contact your local 3M sales representative, or the toll free 3M sales assistance number at 1-800-362-3550.

Storage

Store in original cartons at 70°F (21°C) and 50% relative humidity.

Shelf Life

If stored under proper conditions, product retains its performance and properties for two years from date of manufacture.

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Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.

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