Double Coated Tapes with Adhesive 300MP

9832 • 9832HL

Technical Data **April, 2002**

Product Description

3M™ Double Coated Tapes with Adhesive 300MP are general purpose tapes that provide excellent adhesion to a wide variety of substrates, including many foams, plastics, foil, and felt. These tapes are well suited for applications requiring temperature performance up to 250°F for short term exposure and up to 150°F for long term exposure. A thin polyester film carrier provides dimensional stability and improved handling.

Construction

Tape Number	Faceside[1] Adhesive Thickness	Carrier Type Thickness	Backside[2] Adhesive Thickness	Liner Type	Liner Caliper
9832	2.3 mils (0.058mm)	0.5 mils (0.013mm)	2.0 mils (0.051mm)	Tan, 58#, Polycoated Kraft, unprinted	4.0 mils (0.010mm)
9832HL	2.3 mils (0.058mm)	0.5 mils (0.013mm)	2.0 mils (0.051mm)	Tan, 83#, Polycoated Kraft, unprinted	6.2 mils (0.165mm)

1: Faceside adhesive is on the interior of the roll, exposed when unwound.

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

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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	9832	9832HL
Adhesion to stainless steel ASTM D3330 - 90 degree	oz/in (N/100mm)	oz/in (N/100mm)
- 15 minute RT	56 (61)	56 (61)
- 72 hour RT	58 (63)	58 (63)
- 72 hour 158°F	86 (94)	86 (94)
ASTM D3330 - 180 degree, 2.0 mil aluminum foil		
- 72 hour RT	94 (103)	94 (103)
Adhesion to other surfaces ASTM D3330 - 90 degree, 2.0 mil aluminum foil, 72 hour RT		
ABS	58 (63)	58 (63)
Polycarbonate	66 (72)	66 (72)
Polypropylene	34 (35)	34 (35)
Shear Strength - ASTM D3654 Modified - (0.5 inch square sample size)		
1000 grams at 72°F	2289 minutes	2289 minutes
500 grams at 158°F	1139 minutes	1139 minutes
Relative High Temperature Operating Ranges		
Long Term (days, weeks)	150°F	150°F
Short Term (minutes, hours)	250°F	250°F

Available Sizes

Roll length, width, slitting tolerance, core size.

Maximum in: 1/2" to 54"	1/2 in. - 63/64 in. 180 yds. 1 in. - 54 in. 360 yds.
Normal Slitting Tolerance	± 1/32 in. (0.08 mm)
Core Size (ID) 9832	3.0 in. (76.2 mm)

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Application Techniques

Bond strength is dependent upon the amount of adhesive to surface contact developed. Firm application pressure helps develop better adhesive contact and improves bond strength.

To obtain optimum adhesion, the bonding surfaces must be clean, dry, and well unified. Some typical surface cleaning solvents are isopropyl alcohol or heptane. **Note:** Carefully read and follow the manufacturer's precautions and directions for use when working with solvents.

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.

General Information

3M™ Adhesive 300MP is a solvent free acrylic adhesive ideal for applications requiring high adhesion to a wide variety of materials, including many plastics and foams.

3M™ Double Coated Tapes 9832 and 9832HL have a film carrier, which can add dimensional stability to foams and other substrates. The carrier also provides easier handling during slitting and die-cutting.

Application Ideas

General purpose foam lamination.

General purpose lamination for fabricated parts.

Tape 9832HL has a heavy 83# Polycoated Kraft liner for improved lay-flat properties and moisture stability.

Application Equipment

Wide web lamination

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).

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Certification/ Recognition

MSDS: 3M has not prepared a MSDS for these products which are not subject to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R. 1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, these products should not present a health and safety hazard. However, use or processing of these products in a manner not in accordance with the directions for use may affect their performance and present potential health and safety hazards.

TSCA: These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-223-7427 or visit www.3M.com/converter. Address correspondence to: 3M Engineered Adhesives Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

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ISO 9002

This Engineered Adhesives Division product was manufactured under a 3M quality system registered to ISO 9002 standards.

3M

Converter Markets
Engineered Adhesives Division
3M Center, Building 551-1W-03
St. Paul, MN 55144-1000

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