

October, 2006

3M™ Double Coated Tape 9832HL

Product Description

3M™ Double Coated Tape 9832 with Adhesive 300MP is a general purpose tape that provides excellent adhesion to a wide variety of substrates, including many foams, plastics, foil, and felt. This tape is 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.

3M tape 9832 can be used in the woodworking market on particle board, melamine, HPL, wood, plywood, vinyl, foam and more.

Product Features

- 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.
- Has a film carrier, which can add dimensional stability to foams and other substrates. The carrier also provides easier handling during slitting and diecutting.
- 3M™ Double Coated Tape 9832HL has a heavy 83# Polycoated Kraft liner.



Technical Information Note

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

Typical Physical Properties

Property	Values		Notes
Total Tape Thickness without liner	0.12 mm	4.8 mil	
Faceside Adhesive Thickness	0.058 mm	2.3 mil	Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.
Backside Adhesive Thickness	0.051 mm	2 mil	Backside adhesive is on the exterior of the roll, exposed when liner is removed.
Carrier Thickness	0.013 mm	0.5 mil	
Liner	83# Polycoated Kraft		
Liner Thickness	0.16 mm	6.2 mil	
Liner Color	Tan		

Typical Performance Characteristics

90° Peel Adhesion		Dwell/Cure Time	Substrate
6.1 N/cm	56 oz/in	15 min @ Room Temperature	Stainless Steel
6.3 N/cm	58 oz/in	72 hr @ Room Temperature	Stainless Steel
9.4 N/cm	86 oz/in	72 hr @ 158°F(70°C)	Stainless Steel
6.3 N/cm	58 oz/in	72 hr @ Room Temperature	ABS
3.7 N/cm	34 oz/in	72 hr @ Room Temperature	Polypropylene (PP)
7.2 N/cm	66 oz/in	72 hr @ Room Temperature	Polycarbonate (PC)

Property: 90° Peel Adhesion
 Method: ASTM D3330
 Backing: Aluminum Foil

Property	Values		Test Condition	Method	Notes	Dwell/Cure Time	Substrate	Backing
Relative High Temperature	250 °F		Short Term (minutes, hours)					
Operating Ranges								

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Typical Performance Characteristics (continued)

Property	Values		Test Condition	Method	Notes	Dwell/Cure Time	Substrate	Backing
Relative High Temperature Operating Ranges	150 °F		Long Term (days, weeks)					
Static Shear	2289 min		1000 g @ Room Temperature	ASTM D3654	0.5 in ² sample size			
Static Shear	1139 min		500 g @ Room Temperature	ASTM D3654	0.5 in ² sample size			
180° Peel Adhesion	10.3 N/cm	94 oz/in		ASTM D3330		72 hr @ Room Temperature	Stainless Steel	Aluminum Foil

Handling/Application Information**Application Ideas**

- General purpose foam lamination.
 - General purpose lamination for fabricated parts.
- 3M™ Double Coated Tape 9832 application ideas for woodworking:
- Edge banding.
 - Refacing cabinets.
 - Applying wood veneer.
 - Drawer front mounting.
 - Mounting card holders.
 - Creating jigs.

Application Techniques

Bond strength is dependent upon the amount of adhesive to surface contact. Firm application pressure to the adhesive is needed to ensure adhesive wet out and improves bond strength.

To obtain optimum adhesion, the bonding surfaces must be clean and dry.

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.

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).

3M™ Double Coated Tape 9832HL

Storage and Shelf Life

Store in original cartons at 70°F (21°C) and 50% relative humidity. Keep out of direct sunlight.
If stored under proper conditions, product retains its performance and properties for 24 months from date of manufacture.

Information

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Trademarks

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References

Safety Data Sheet (SDS)

https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=9832HL

ISO Statement

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

Recognition/Certification

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.

