

October, 2006

3M™ Double Coated Tape 9832HL

Product Description

Finite Element Analysis (FEA) data is available for this product at: 3m.com/FEA

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		Attribute Modifier		
Total Tape Thickness without liner	0.12 mm	4.8 mil			
Carrier Thickness	0.013 mm	0.5 mil			
Liner	83# Polycoated Kraft				
Liner Color	Tan		Primary		
Liner Thickness	0.16 mm	6.2 mil			

Adhesive Thickness		Attribute Modifier	Notes				
0.051 mm		Backside	The caliper listed is based on a calculation from manufacturing controlled adhesive coat weight. While past data pages have listed nominal thicknesses of 1 and 2 mils, the coat weight (and theoretical caliper) has not changed.				
2 mil		Backside	Backside adhesive is on the exterior of the roll, exposed when liner is removed.				
0.058 mm	2.3 mil	Faceside	Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.				

Property: Adhesive Thickness

Typical Performance Characteristics

90° Peel Adhesion		Dwell/Cure Time	Dwell Time Units	Temp C	Temp F	Substrate	Notes
6.1 N/cm		15	min	22C	72F	Stainless Steel	
56 oz/in		15	min	22C	72F	Stainless Steel	12 in/min (300 mm/min)
6.3 N/cm	58 oz/in	72	hr	22C	72F	Stainless Steel	12 in/min (300 mm/min)
9.4 N/cm	86 oz/in	72	hr	70C	158F	Stainless Steel	12 in/min (300 mm/min)
6.3 N/cm	58 oz/in	72	hr	22C	72F	ABS	12 in/min (300 mm/min)
3.7 N/cm	34 oz/in	72	hr	22C	72F	Polypropylene (PP)	12 in/min (300 mm/min)

Table continued on next page

Typical Performance Characteristics (continued)

90° Peel Adhesion		Dwell/Cure Time	Dwell Time Units	Temp C	Temp F	Substrate	Notes
7.2 N/cm	66 oz/in	72	hr	22C	72F	Polycarbonate (PC)	12 in/min (300 mm/min)

Property: 90° Peel Adhesion Method: ASTM D3330 Environmental Condition: 52%RH Backing: 2 mil Aluminum Foil

Property	y Values	i	Test Condi	ti ð f letho	dNotes	Dwell/ Time	Dwell (Clumee Units	Temp C	Temp F		nmenta ti 6u bst	al ra Be cking
Relative High Temperat	250 °F ure		Short Term									
Operating Ranges			(minut									
Relative High Temperat Operating Ranges			Long Term (days, weeks)								
Static Shear	2289 min		1000 g @ Room	D3654	0.5 in² sample size							
Static Shear	1139 min		500 g @ Room	D3654	0.5 in² sample size							
180° Peel Adhesion	10.3 N/cm	94 oz/in		ASTM D3330	12 in/min (300 mm/min)	72	hr	22C	72F	52%RI	HStainle Steel	s A luminun 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).

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.

Trademarks

3M is a trademark of 3M Company.

References

	Property	Values				
3	m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/~/3M-Double-Coated-Tape-9832HL?N=5002385+3293241796&rt=rud				
S	afety 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

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