3M™ Double Coated Tape 9832HL

Last Revision Date: May, 2022

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	Additional Information
Adhesive Type	Acrylic	
Liner	83# Polycoated Kraft	
Liner Thickness	0.16 mm	
Liner Color	Tan	View ^
Test Name: Primary		
Adhesive Thickness	0.051 mm	View ^
Test Name: Backside Notes: 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.		
Carrier Thickness	0.013 mm	

Total Tape Thickness	4.8 mil	View
Test Method: ASTM D3652		
Total Tape Thickness	0.12 mm	View
Test Method: ASTM D3652		
Adhesive Thickness	2 mil	View
Test Name: Backside Notes: Backside adhesive is on the exterior of the roll, exposed when liner is removed.		
Adhesive Thickness	0.058 mm	View
Test Name: Faceside Notes: Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.		
Adhesive Thickness	2.3 mil	View
Test Name: Faceside Notes: Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.		
Carrier Thickness	0.5 mil	
Liner Print	None	
Liner Thickness	6.2 mil	

Typical Performance Characteristics

Property	Values	Additional Information
90° Peel Adhesion	6.1 N/cm	View
Test Method: ASTM D3330 Dwell/Cure Time: 15.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Backing: 2 mil Aluminum Foil		
90° Peel Adhesion	56 oz/in	View
Test Method: ASTM D3330 Dwell/Cure Time: 15.0 Dwell Time Units: min		

Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	6.3 N/cm	View

Test Method: ASTM D3330

Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	58 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	9.4 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	86 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	6.3 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	58 oz/in	

View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	3.7 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	34 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	7.2 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polycarbonate (PC)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	66 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polycarbonate (PC)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

Short Term Temperature Resistance	250 °F

Short Term Temperature Resistance	121 °C	
Long Term Temperature Resistance	93 °C	
Long Term Temperature Resistance	200 °F	
Static Shear	2289 min	View

Test Method: ASTM D3654

Notes: 0.5 in² sample size

Static Shear	1139 min	View

Test Method: ASTM D3654

Notes: 0.5 in² sample size

180° Peel Adhesion	10.3 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	94 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: Aluminum Foil

Notes: 12 in/min (300 mm/min)

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.

Recognition/Certification

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Bottom Matter

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Handling/Application Information

Application Examples

- 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).

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40070378/
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

Family Group

Link Tags:

9832HL

Products	Adhesive Type	Liner	Liner Thickness	Liner Color	Adhesive Thickness	Carrier Thickness	Total Tape Thickness	Short Term Temperature Resistance	Long Term Temperature Resistance
9832HL	Acrylic	83# Polycoated Kraft	0.16 mm	Tan	0.058 mm	0.013 mm	0.12 mm	121 °C	200 °F

ISO Statement

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

Information

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