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3M™ Double Coated Tape 9832

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.



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 | | Method | Test Name |
|----------------------|----------------------|---------|------------|-----------|
| Total Tape Thickness | 0.12 mm | 4.8 mil | ASTM D3652 | |
| Carrier Thickness | 0.013 mm | 0.5 mil | | |
| Adhesive Type | Acrylic | | | |
| Liner | 58# Polycoated Kraft | | | |
| Liner Print | None | | | |
| Liner Color | Tan | | | Primary |
| Liner Thickness | 0.1 mm | 4 mil | | |

| Adhesive Thickness | | Test Name | 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 | 23C | 72F | Stainless Steel | |
| 56 oz/in | 6.3 N/cm | 15 | min | 23C | 72F | Stainless Steel | 12 in/min (300 mm/min) |
| 58 oz/in | | 72 | hr | 23C | 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 | 23C | 72F | ABS | 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 |
|-------------------|----------|-----------------|------------------|--------|--------|--------------------|------------------------|
| 3.7 N/cm | 34 oz/in | 72 | hr | 23C | 72F | Polypropylene (PP) | 12 in/min (300 mm/min) |
| 7.2 N/cm | 66 oz/in | 72 | hr | 23C | 72F | Polycarbonate (PC) | 12 in/min (300 mm/min) |

Property: 90° Peel Adhesion
 Method: ASTM D3330
 Environmental Condition: 50%RH
 Backing: 2 mil Aluminum Foil

| Property | Values | | Test Condition | Method | Notes | Dwell Time | Dwell Units | Temp C | Temp F | Environmental Condition | Substrate | Backing |
|-----------------------------------|-----------|----------|---------------------------|------------|------------------------|------------|-------------|--------|--------|-------------------------|-----------------|---------------|
| | | | | | | | | | | | | |
| Short Term Temperature Resistance | 121 °C | 250 °F | Short Term | | | | | | | | | |
| | | | (minutes, hour) | | | | | | | | | |
| Long Term Temperature Resistance | 93 °C | 200 °F | Long Term | | | | | | | | | |
| | | | (day, weeks) | | | | | | | | | |
| Static Shear | 2289 min | | 1000 g @ Room Temperature | ASTM D3654 | 0.5 in² sample size | | | | | | | |
| Static Shear | 1139 min | | 500 g @ Room Temperature | ASTM 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 | 23C | 72F | 50%RH | Stainless Steel | Aluminum Foil |

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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).

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 |
|-----------------------|---|
| 3m.com Product Page | https://www.3m.com/3M/en_US/company-us/all-3m-products/~/3M-Double-Coated-Tape-9832/?N=5002385+3293241797&rt=rud |
| Safety Data Sheet SDS | https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=9832 |

ISO Statement

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

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