

October, 2006

## 3M™ Double Coated Tape 9832

### Product Description

Finite Element Analysis (FEA) data is available for this product at: [3m.com/FEA](http://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               |         | 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                              | 58# Polycoated Kraft |         |                                                                                           |
| Liner Thickness                    | 0.1 mm               | 4 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 Operating Ranges | 250 °F |  | Short Term (minutes, hours) |        |       |                 |           |         |

Table continued on next page

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 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 |                     | 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 9832

## 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     | <a href="https://www.3m.com/3M/en_US/company-us/all-3m-products/~ /3M-Double-Coated-Tape-9832?N=5002385+3293241797&amp;rt=rud">https://www.3m.com/3M/en_US/company-us/all-3m-products/~ /3M-Double-Coated-Tape-9832?N=5002385+3293241797&amp;rt=rud</a>       |
| Safety Data Sheet (SDS) | <a href="https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=9832">https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=9832</a> |

## 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.

## Information

**Technical Information:** The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

**Product Selection and Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

**Warranty, Limited Remedy, and Disclaimer:** Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

**Limitation of Liability:** Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

