

November, 2011

3M™ Double Coated Tape 99786

Product Description

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

3M™ Double Coated Tapes 99786 with 3M™ Adhesive 300MP provides high adhesion to a wide variety of materials, including plastics and foams and has a thin nonwoven carrier for dimensional stability and improved handling.

Product Features

- Excellent adhesion to open cell foams.
- Consistent adhesive performance to many plastics.
- Polycoated liner for ease of handling.



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	
Adhesive Type	300MP	
Adhesive Carrier	Nonwoven	
Adhesive Thickness	0.14 mm	5.5 mil
Liner	58# Polycoated Kraft	
Liner Thickness	0.11 mm	4.2 mil
Liner Color	Tan, 3M print	

Typical Performance Characteristics

90° Peel Adhesion		Substrate
6.7 N/cm	61 oz/in	Stainless Steel
5.4 N/cm	49 oz/in	ABS
5.5 N/cm	50 oz/in	Polycarbonate (PC)

Property: 90° Peel Adhesion
 Method: ASTM D3330
 Dwell/Cure Time: 72 hr @ Room Temperature
 Backing: Aluminum Foil

Relative High Temperature Operating Ranges		Test Condition
149 °C	300 °F	Short Term (minutes, hours)
93 °C	200 °F	Long Term (days, weeks)

Property: Relative High Temperature Operating Ranges

180° Peel Adhesion		Method	Substrate
5.9 N/cm	54 oz/in	ASTM D3330	Stainless Steel
5.9 N/cm	54 oz/in		Polycarbonate (PC)
5.2 N/cm	47 oz/in		ABS

Property: 180° Peel Adhesion
 Dwell/Cure Time: 72 hr @ Room Temperature
 Backing: Aluminum Foil

Property	Values		Method	Test Condition
Liner Release	4.4 N/cm	40 oz/in	ASTM D3330	90 in/min, Room Temperature

Handling/Application Information

Application Ideas

- Foam lamination
- Gasket attachment
- Insulator attachment
- General attachment
- Nameplate attachment

Directions for Use

Handling Recommendations:

- Rolls should be handled at a minimum and handled by their core and top layer, without applying a lot of finger pressure.
- Do not handle the rolls by their sides, as this can cause the sides of the adhesive to bond with fingertips.

For additional information, please refer to the Laminating Adhesives 300MP Technical Bulletin (70-0709-3905-6).

Storage and Shelf Life

It is best to use the rolls as soon as possible after receipt. Ideally, rolls should be laminated to the intended substrates as soon after receipt as possible. Store in original cartons at 70°F (21°C) and 50% relative humidity out of direct sunlight. When storing rolls, lay them flat in a horizontal position with release treated wafers between the rolls.

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-99786?N=5002385+3293240959&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=99786

Family Group

	99786	99786NP
Relative High Temperature Operating Ranges (°C) Test Condition: Short Term (minutes, hours)	149	149
Relative High Temperature Operating Ranges (°C) Test Condition: Long Term (days, weeks)	93	93
Adhesive Type	300MP	300MP
Adhesive Carrier	Nonwoven	Nonwoven

Table continued on next page

Family Group (continued)

	99786	99786NP
Adhesive Thickness (mm)	0.14	0.14
Liner	58# Polycoated Kraft	58# Polycoated Kraft
Liner Thickness (mm)	0.11	0.11
Liner Color	Tan, 3M print	Tan

ISO Statement

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

Recognition/Certification

TSCA: This product is defined as an article under the Toxic Substances Control Act and therefore, it is 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.

