

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

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
 Dwell Time Units: hr
 Temp C: 22C
 Temp F: 72F
 Environmental Condition: 52%RH
 Backing: 2 mil Aluminum Foil
 notes: 12 in/min (300 mm/min)

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		Substrate
5.9 N/cm	54 oz/in	Stainless Steel
5.9 N/cm	54 oz/in	Polycarbonate (PC)

Table continued on next page

Typical Performance Characteristics (continued)

180° Peel Adhesion		Substrate
5.2 N/cm	47 oz/in	ABS

Property: 180° Peel Adhesion
 Method: ASTM D3330
 Dwell/Cure Time: 72
 Dwell Time Units: hr
 Temp C: 22C
 Temp F: 72F
 Environmental Condition: 52%RH
 Backing: Aluminum Foil
 notes: 12 in/min (300 mm/min)

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

3M™ Double Coated Tape 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
Liner Color Attribute Modifier: Primary	Tan, 3M print	Tan
Adhesive Type	300MP	300MP
Adhesive Carrier	Nonwoven	Nonwoven
Adhesive Thickness (mm)	0.14	0.14
Liner	58# Polycoated Kraft	58# Polycoated Kraft
Liner Thickness (mm)	0.11	0.11

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

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