



Technical Data Sheet

3M™ Scrim Adhesive Tape 99786NP+



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

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

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

Product Features

- 3M™ Acrylic Adhesive 300MP+ is “Low Fog” per SAEJ1756
- Excellent adhesion to foam, fabrics, felt, nylon, leather, wood and other substrates
- Intended for a variety of markets, including general industrial, automotive, marine, medical equipment and specialty vehicle
- The polycoated kraft paper liner makes this adhesive tape ideal for die cutting and converting processes

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

Attribute Name	Value
Adhesive Type	300MP+ Acrylic
Adhesive Carrier	Non-Woven Tissue
Total Tape Thickness	0.14 mm (5.5 mil)
Density	0.91 g/cm ³

Attribute Name	Value
Liner	58# PCK
Liner Thickness	0.107 mm (4.2 mil)
Primary Liner Color	Tan
Liner Print	None

Typical Performance Characteristics

180° Peel Adhesion

Dwell Time: 72 h
Backing: 2 mil Aluminum Foil
Test Method: ASTM D3330

Temperature	Substrate	Value
22 °C (72 °F)	Stainless Steel	9.2 N/cm (84 oz/in) ¹
22 °C (72 °F)	ABS	5.4 N/cm (49 oz/in) ¹
22 °C (72 °F)	Polypropylene (PP)	3.0 N/cm (27 oz/in) ¹
70 °C (158 °F)	Stainless Steel	13 N/cm (120 oz/in) ¹
70 °C (158 °F)	ABS	7.4 N/cm (68 oz/in) ¹
70 °C (158 °F)	Polypropylene (PP)	2.6 N/cm (24 oz/in) ¹

¹ 12 in/min (300 mm/min)

90° Peel Adhesion

Dwell Time: 72 h
Backing: 2 mil Aluminum Foil
Test Method: ASTM D3330

Temperature	Substrate	Value
22 °C (72 °F)	Stainless Steel	10. N/cm (91 oz/in) ¹
22 °C (72 °F)	ABS	4.5 N/cm (41 oz/in) ¹
22 °C (72 °F)	Polypropylene (PP)	2.6 N/cm (24 oz/in) ¹
70 °C (158 °F)	Stainless Steel	9.1 N/cm (83 oz/in) ¹
70 °C (158 °F)	ABS	5.1 N/cm (47 oz/in) ¹
70 °C (158 °F)	Polypropylene (PP)	2.5 N/cm (23 oz/in) ¹

¹ 12 in/min (300 mm/min)

Static Shear

Substrate: Stainless Steel
Dwell Time: 72 h
Backing: 2 mil Aluminum Foil
Test Method: ASTM D3654

Temperature	Test Condition	Value
22 °C (72 °F)	1000g	7,900 min ¹
70 °C (158 °F)	500g	8,100 min ¹

¹ 1 in x 1 in sample area, test terminated after 10,000 minutes

Dwell Time: 16 h

Attribute Name	Test Method	Value
Fogging (Photometric method)	SAEJ1756	95 % ¹

¹ Fogging condensate on the glass plate determined by measuring the 60o specular gloss. The 60o specular gloss for the same glass plate is used as a reference value. The higher value indicates less fogging.

Typical Environmental Performance

Temperature: 32 °C (90 °F)
 Dwell Time: 72 h
 Backing: 2 mil Aluminum Foil
 Test Method: ASTM D3330
 Environmental Condition: 90%RH

Attribute Name	Substrate	Value
180° Peel Adhesion	Stainless Steel	14 N/cm (130 oz/in) ¹
180° Peel Adhesion	ABS	6.0 N/cm (55 oz/in) ¹
180° Peel Adhesion	Polypropylene (PP)	3.0 N/cm (28 oz/in) ¹
90° Peel Adhesion	Stainless Steel	11 N/cm (100 oz/in) ¹
90° Peel Adhesion	ABS	5.4 N/cm (49 oz/in) ¹
90° Peel Adhesion	Polypropylene (PP)	3.0 N/cm (27 oz/in) ¹

¹ 12 in/min (300 mm/min)

Electrical and Thermal Properties

Attribute Name	Test Method	Value
Glass Transition Temperature (Tg)	ASTM E1356	-60 °C ¹

¹ Glass Transition Temperature (Tg) determined using DSC Analyzer with a heating rate of 4°C per minute. First heat values given.

Storage and Shelf Life

Recommended storage in the original packaging at room temperature conditions of 60-80°F (16-22°C) and 50% relative humidity. Keep out of direct sunlight. Unconverted product has a shelf life of 24 months from date of manufacture.

Automotive Disclaimer

Select Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

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.

Disclaimer: 3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, or death. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3M.com.

ISO Statement

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

3M
Industrial Adhesives and Tapes Division
Converter Markets
3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-223-7427 • 651-778-4244 (fax)
www.3M.com

3M is a trademark of 3M Company.
©3M 2023 (6/23)