



# Technical Data Sheet

## 3M™ Scrim Adhesive Tape 99786+



[Product Details](#)



[Regulatory Info/SDS](#)

### Product Description

Finite Element Analysis (FEA) data is available for this product at: [3m.com/FEA](https://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. 99786+ 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 <sup>3</sup>

Attribute Name	Value
Liner	58# PCK
Liner Thickness	0.107 mm (4.2 mil)
Primary Liner Color	Tan
Liner Print	3M logo

### 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) <sup>1</sup>
22 °C (72 °F)	ABS	5.4 N/cm (49 oz/in) <sup>1</sup>
22 °C (72 °F)	Polypropylene (PP)	3.0 N/cm (27 oz/in) <sup>1</sup>
70 °C (158 °F)	Stainless Steel	13 N/cm (120 oz/in) <sup>1</sup>
70 °C (158 °F)	ABS	7.4 N/cm (68 oz/in) <sup>1</sup>
70 °C (158 °F)	Polypropylene (PP)	2.6 N/cm (24 oz/in) <sup>1</sup>

<sup>1</sup> 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) <sup>1</sup>
22 °C (72 °F)	ABS	4.5 N/cm (41 oz/in) <sup>1</sup>
22 °C (72 °F)	Polypropylene (PP)	2.6 N/cm (24 oz/in) <sup>1</sup>
70 °C (158 °F)	Stainless Steel	9.1 N/cm (83 oz/in) <sup>1</sup>
70 °C (158 °F)	ABS	5.1 N/cm (47 oz/in) <sup>1</sup>
70 °C (158 °F)	Polypropylene (PP)	2.5 N/cm (23 oz/in) <sup>1</sup>

<sup>1</sup> 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 <sup>1</sup>
70 °C (158 °F)	500g	8,100 min <sup>1</sup>

<sup>1</sup> 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 % <sup>1</sup>

<sup>1</sup> 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) <sup>1</sup>
180° Peel Adhesion	ABS	6.0 N/cm (55 oz/in) <sup>1</sup>
180° Peel Adhesion	Polypropylene (PP)	3.0 N/cm (28 oz/in) <sup>1</sup>
90° Peel Adhesion	Stainless Steel	11 N/cm (100 oz/in) <sup>1</sup>
90° Peel Adhesion	ABS	5.4 N/cm (49 oz/in) <sup>1</sup>
90° Peel Adhesion	Polypropylene (PP)	3.0 N/cm (27 oz/in) <sup>1</sup>

<sup>1</sup> 12 in/min (300 mm/min)

## **Electrical and Thermal Properties**

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

<sup>1</sup> 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 40-60% relative humidity. Keep out of direct sunlight. Unconverted product has a shelf life of 24 months from date of manufacture.

## **Automotive Disclaimer**

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## **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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