Technical Data Sheet

3M™ Scrim Adhesive 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

- 3M™ Acrylic Adhesive 300MP+ is “Low Fog” per SAEJ1756
- Excellent adhesion to foam, fabrics, felt, leather, wood and other substrates
- Intended for a variety of markets, including general industrial, automotive, marine, medical equipment, specialty vehicle and construction finishing
- 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

Property	Values	Additional Information
Adhesive Type	300MP+ Acrylic	
Adhesive Carrier	Non-woven	
Liner Color	Tan	View
Test Name: Primary		
Liner	58# PCK	
Liner Thickness	0.11 mm	
Liner Print	3M logo	
Total Tape Thickness (mil)	5.5 mil	

View		
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.14 mm	View
Test Method: ASTM D3652		
Total Tape Thickness	0,055 in	View
Test Method: ASTM D3652		
Density	0.91 g/cm³	

Typical Performance Characteristics

Property	Values	Additional Information
90° Peel Adhesion	18 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	25 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	40 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	56 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	71 N/cm	View

Test Method: ASTM D3330

Test Name: Backside
Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	60 N/cm	View

Test Method: ASTM D3330

Test Name: Backside
Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	27 oz/in	View

Test Method: ASTM D3330

Test Name: Backside
Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	31 N/cm	View

Test Method: ASTM D3330

Test Name: Backside
Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	44 N/cm	View

Test Method: ASTM D3330

Test Name: Silicone
Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	42 N/cm	View

Test Method: ASTM D3330

Test Name: Acrylic
Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	60 oz/in	View

Test Method: ASTM D3330

Test Name: Acrylic
Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	93 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	65 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	59 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	42 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	31 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	22 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	62 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	65 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0

Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	92 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	150 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	21 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	29 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	65 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp F: 72F
Substrate: Stainless Steel

Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	52 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp F: 72F
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	37 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp F: 72F
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	29 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp F: 72F
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	20 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp F: 72F
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	170 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	120 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0

Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	76 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	53 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	40 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	28 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

Fogging (Photometric method)	95 %	View

Test Method: SAEJ1756

Test Condition: 1 hr

Notes: 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.

Storage and Shelf Life

Store in the original packaging at room temperature conditions of 72°F (22°C) and 50% relative humidity. Keep out of direct sunlight.
Product retains its performance properties for 24 months from date of manufacture.

Automotive Disclaimer

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Bottom Matter

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Trademarks

3M is a trademark of 3M Company.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b5005470007/
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%2B

Family Group

Link Tags:

- 3M™ Adhesive Transfer Tape 9775WL+
- 3M™ Adhesive Transfer Tape 9773WL+
- 3M™ Double Coated Tape 9832HL+
- 3M™ Double Coated Tape 9832+
- 3M™ Scrim Adhesive Tape 99786+
- 3M™ Scrim Adhesive Tape 99786NP+

Products	Adhesive Carrier	Liner Color	Liner Thickness	Total Tape Thickness (mm)	Liner	Adhesive Type
3M™ Adhesive Transfer Tape 9775WL+	None	White	0.18 mm	N/A	N/A	N/A

3M™ Adhesive Transfer Tape 9773WL+	N/A	White	0.18 mm	N/A	N/A	N/A
3M™ Double Coated Tape 9832+	PET	N/A	N/A	N/A	83# PCK	300MP+ Acrylic
3M™ Double Coated Tape 9832HL+	PET	N/A	N/A	N/A	58# PCK	300MP+ Acrylic
3M™ Scrim Adhesive Tape 99786+	N/A	N/A	N/A	0.14 mm	58# PCK	N/A
3M™ Scrim Adhesive Tape 99786NP+	N/A	Tan	N/A	N/A	N/A	N/A

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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