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3M™ Adhesive Transfer Tape 9774WL

Product Description

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

3M™ Adhesive Transfer Tape 9774WL with 3M™ Adhesive 300MP is suitable for bonding to most surfaces. The acrylic adhesive provides an excellent bond to various fabricated foams, fabrics, substrates, and has good shear strength at elevated temperatures. This tape also meets the highly variable needs of most gasket fabricators.



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

Total Tape Thickness		
4 mil	0.004 in	0.102 mm

Property: Total Tape Thickness
Method: ASTM D3652

Property	Values	Test Name
Liner Print	None	
Liner Thickness	7 mil	0.18 mm
Adhesive Type	300MP Acrylic Adhesive	
Liner	96# Polycoated Kraft Paper	
Liner Color	White	Primary

Typical Performance Characteristics

90° Peel Adhesion			Dwell/Cure Time	Dwell Time Units	Temp C	Temp F	Environmental Condition	Backing	Substrate
4.69 lb/in			24	hr	23C	72F	50%RH	5 mil Aluminum Foil	
7.2 N/cm	65 oz/in	8.3 N/cm	15	min	23C	72F	50%RH	2 mil Aluminum Foil	ABS
4 N/cm	36 oz/in		15	min	23C	72F	50%RH	2 mil Aluminum Foil	Polypropylene (PP)
75 oz/in			72	hr	23C	72F	50%RH	2 mil Aluminum Foil	Stainless Steel
14.9 N/cm	134 oz/in		72	hr	70C	158F	50%RH	2 mil Aluminum Foil	Stainless Steel
5.3 N/cm	48 oz/in		72	hr	23C	72F	50%RH	2 mil Aluminum Foil	ABS
4.4 N/cm	40 oz/in		72	hr	23C	72F	50%RH	2 mil Aluminum Foil	Polypropylene (PP)
11.8 N/cm	106 oz/in		72	hr	38C	100F	100%RH	2 mil Aluminum Foil	Stainless Steel

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Typical Performance Characteristics (continued)

90° Peel Adhesion			Dwell/Cure Time	Dwell Time Units	Temp C	Temp F	Environmental Condition	Backing	Substrate
7.1 N/cm	64 oz/in		72	hr	70C	158F	50%RH	2 mil Aluminum Foil	Polypropylene (PP)
5.9 N/cm	53 oz/in		72	hr	70C	158F	50%RH	2 mil Aluminum Foil	ABS

Property: 90° Peel Adhesion
 Method: ASTM D3330
 notes: 12 in/min (300 mm/min)

Static Shear	Temp C	Temp F	Substrate	Notes	Dwell/Cure Time	Dwell Time Units	Test Condition
10000 g	23C	73F	Stainless Steel	Tested at various temperatures and gram loadings. 0.5 in² (3.23 cm²). Will hold listed weight for 10,000 minutes (approximately 7 day).			
10000 min				1" x 1" Overlap	60	min	1000 g @ Room Temperature
10000 min				1" x 1" Overlap	60	min	250 g @ 70°C (158°F) high temperature shears

Property: Static Shear
 Method: ASTM D3654

Property	Values	Test Condition	Method	Test Name	Dwell/Cure Time	Dwell/Cure Units	Temp C	Temp F	Environmental Condition	Substrate	Backing	Notes
Short Term Temperature Resistance	250 °F 121 °C	Short Term										(minutes, hour)
Long Term Temperature Resistance	200 °F 93 °C	Long Term										(day, weeks)

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Typical Performance Characteristics (continued)

Property	Values	Test Condition	Method	Test Name	Dwell Time	Dwell Time Units	Temp C	Temp F	Environmental Condition	Substrate	Backing	Notes
UV Resistance	Adhesive is resistant to oxidation and ozone when exposed to air or ultraviolet light.											
90° Peel Adhesion Polypropylene (PP)	2.25 lb/in		ASTM D3330	90° Peel Adhesion	72	hr	23C	72F	50%RH	Polypropylene (PP)	Pyralene PET	12 in/min (300 mm/min)
90° Peel Adhesion ABS	4.06 lb/in		ASTM D3330	90° Peel Adhesion	72	hr	23C	72F	50%RH	HABS		

Available Sizes

Property	Values	
Standard Roll Length	180 yd	
Maximum Available Width	60 in	
Normal Slitting Tolerance	± 1/32 in	
Core Size (ID)	75 mm	3 in

Typical Environmental Performance

Humidity Resistance

No adverse effect on the bond after exposure to 100% relative humidity at 100°F (38°C)

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.

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-Adhesive-Transfer-Tape-9774WL/?N=5002385+3293241441&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=9774WL

Family Group

	9772WL	9773WL	9774WL	9775WL
Long Term Temperature Resistance (°F) Test Condition: Long Term (day, weeks)	200	200	200	200
Short Term Temperature Resistance (°C) Test Condition: Short Term (minutes, hour)	121.1111	121.1111	121.1111	121.1111
Liner Color Test Name: Primary	White	White	White	White
Long Term Temperature Resistance (°C) Test Condition: Long Term (day, weeks)	93.33333	93.33333	93.33333	93.33333
Total Tape Thickness (mm)	0.0508	0.0762	0.1016	0.127
Adhesive Type	300MP Acrylic Adhesive	300MP Acrylic Adhesive	300MP Acrylic Adhesive	300MP Acrylic Adhesive
Liner	96# Polycoated Kraft Paper	96# Polycoated Kraft Paper	96# Polycoated Kraft Paper	96# Polycoated Kraft Paper
Liner Thickness (mm)	0.18	0.18	0.18	0.18

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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