



Adhesive Transfer Tapes with Adhesive 300MP

9772WL • 9773WL • 9774WL • 9774FL • 9775WL

Technical Data

April, 2011

Description 3M™ Adhesive Transfer Tapes 9772WL, 9773WL, 9774WL, 9774FL and 9775WL with 3M™ Adhesive 300MP are 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. These tapes also meet the highly variable needs of most gasket fabricators.

Construction	Product	3M Tape 9772WL	3M Tape 9773WL	3M Tape 9774WL	3M Tape 9774FL	3M Tape 9775WL
Adhesive:		2.0 mils (51 microns) 300MP Hi-Strength Acrylic Adhesive	3.0 mils (76 microns) 300MP Hi-Strength Acrylic Adhesive	4.0 mils (102 microns) 300MP Hi-Strength Acrylic Adhesive	4.0 mils (102 microns) 300MP Hi-Strength Acrylic Adhesive	5.0 mils (127 microns) 300MP Hi-Strength Acrylic Adhesive
Liner:		7.0 mils (178 microns) 96# White Polycoated Kraft Paper	7.0 mils (178 microns) 96# White Polycoated Kraft Paper	7.0 mils (178 microns) 96# White Polycoated Kraft Paper	2.0 mils (51 microns) Clear PET film	7.0 mils (178 microns) 96# White Polycoated Kraft Paper

Typical Physical Properties and Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Adhesion: ASTM D3330 (modified) 90° Peel, 12"/minute (305 mm/minute), 2 mil aluminum foil to various surfaces.

Surface	72 Hour Dwell		72 Hour Dwell @ 158°F (70°C)		72 Hour Dwell @ 100°F (38°C)/100% RH	
	Oz./In.	N/100 mm	Oz./In.	N/100 mm	Oz./In.	N/100 mm
Stainless Steel						
3M Tape 9772WL	58	64	93	103	65	72
3M Tape 9773WL	65	72	122	136	90	100
3M Tape 9774WL	75	83	134	149	106	118
3M Tape 9774FL*	75	83	134	149	106	118
3M Tape 9775WL	88	98	177	197	110	122
ABS (High Surface Energy Plastic)						
3M Tape 9772WL	47	52	31	34	36	40
3M Tape 9773WL	59	66	45	50	45	50
3M Tape 9774WL	65	72	48	53	53	59
3M Tape 9774FL*	65	72	48	53	53	59
3M Tape 9775WL	72	80	49	54	55	61

*3M Tape 9774FL is available with a film liner.

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Typical Physical Properties and Performance Characteristics (continued)

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Surface	72 Hour Dwell		72 Hour Dwell @ 158°F (70°C)		72 Hour Dwell @ 100°F (38°C)/100% RH	
	Oz./In.	N/100 mm	Oz./In.	N/100 mm	Oz./In.	N/100 mm
Polypropylene (Low Surface Energy Plastic)						
3M™ Adhesive Transfer						
Tape 9772WL	26	29	31	34	57	63
Tape 9773WL	33	37	37	41	61	68
Tape 9774WL	36	40	40	44	64	71
Tape 9774FL*	36	40	40	44	64	71
Tape 9775WL	46	51	44	49	65	72

*3M Tape 9774FL is available with a film liner.

Environmental Performance

The bond strength of the adhesive increases as a function of time and temperature.

Temperature Resistance: Short term: 250 (121°C).

Humidity Resistance: No adverse effect on the bond after exposure to 100% relative humidity at 100 (38°C).

U.V. Resistance: Adhesive is resistant to oxidation and ozone when exposed to air or ultraviolet light.

Typical Static Shear Performance

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Shear Adhesion: (ASTM D3654, 1" x 1" Overlap with one hour dwell).

Surface	Minutes to Fail	
Stainless Steel	1000 grams at room temperature	
	3M Tape 9772WL	10,000
	3M Tape 9773WL	10,000
	3M Tape 9774WL	10,000
	3M Tape 9774FL	10,000
	3M Tape 9775WL	10,000
	250 grams @ 158°F (70°C) high temperature shears	
	3M Tape 9772WL	10,000
	3M Tape 9773WL	10,000
	3M Tape 9774WL	10,000
	3M Tape 9774FL	10,000
	3M Tape 9775WL	10,000

Storage

Store at room temperature conditions of 72°F (22°C) and 50% relative humidity.

Shelf Life

Product retains its performance properties for two years from date of manufacture.

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Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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ISO 9001:2008

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2008 standards.



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