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3M™ Adhesive Transfer Tape 6038PC

Product Description

3M™ Acrylic Adhesive Transfer Tape 6038PC is a 8 mil transfer tape formulated for low fog characteristics. The 300MP adhesive is suitable for bonding to most substrates including foams, fabrics and substrates with rough or textured surfaces.



General Information

- 3M 6038PC meets automotive OEM fogging specifications
- Provides excellent bond to a wide variety of surfaces.
- High initial tack for quick and easy assembly line application.
- High temperature resistance to withstand environmental conditions normally associated with automotive interiors.

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	
Adhesive Type	#300MP Acrylic Adhesive	
Adhesive Thickness	0.203 mm	8 mil
Liner	58# Polycoated Kraft Paper	
Liner Thickness	0.107 mm	4.2 mil

Typical Performance Characteristics

Property	Values		Test Condition
Relative High Temperature Operating Ranges	121 °C	250 °F	Short Term (minutes, hours)
Flammability Test	Pass FMVSS 302/SAE J369		
Automotive Fogging Test	99		SAE J1756 @ 100°C

Environmental Performance (90° Peel)		Environmental Condition
13.9 N/cm	127 oz/in	Unleaded Gas at 1 Hour Room Temperature
10.2 N/cm	93 oz/in	MEK at 1 Hour Room Temperature
15.2 N/cm	139 oz/in	Weak Acid (pH 4) at 4 Hours Room Temperature
14.5 N/cm	132 oz/in	Weak Base (pH 10) at 4 Hours Room Temperature
19.6 N/cm	179 oz/in	Oil (10W30) at 72 Hours 120°F(49°C)
15.2 N/cm	139 oz/in	Water – 100 hours, Room Temperature
23.5 N/cm	215 oz/in	7 Days at 90°F(32°C) and 90% Relative Humidity
24.1 N/cm	200 oz/in	Temperature Cycling: 4 Hours at 158°F (70°C) 4 Hours at -20°F (-29°C) 16 Hours at Room Temperature Repeat three times

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Typical Performance Characteristics (continued)

Environmental Performance (90° Peel)		Environmental Condition
22.2 N/cm	203 oz/in	Sodium Chloride Solution (5%) - 72 hrs. @ R.T
24.1 N/cm	220 oz/in	Ultraviolet Light - 30 days exposure

Property: Environmental Performance (90° Peel)

Dwell/Cure Time: 24 hr

Substrate: Stainless Steel

Backing: Aluminum Foil

notes: 12 inches/minute (305 mm/minute)

90° Peel Adhesion		Dwell/Cure Time	Substrate
18.1 N/cm	165 oz/in	15 min @ Room Temperature	Stainless Steel
23 N/cm	210 oz/in	72 hr @ Room Temperature	Stainless Steel
27 N/cm	247 oz/in	72 hr @ 158°F(70°C)	Stainless Steel
13.7 N/cm	125 oz/in	15 min @ Room Temperature	Polycarbonate (PC)
16 N/cm	146 oz/in	72 hr @ Room Temperature	Polycarbonate (PC)
11.6 N/cm	106 oz/in	72 hr @ 158°F(70°C)	Polycarbonate (PC)
10.5 N/cm	96 oz/in	72 hr @ Room Temperature	Polypropylene (PP)
9 N/cm	82 oz/in	72 hr @ 158°F(70°C)	Polypropylene (PP)
15.7 N/cm	143 oz/in	72 hr @ Room Temperature	ABS
13.1 N/cm	120 oz/in	72 hr @ 158°F(70°C)	ABS

Property: 90° Peel Adhesion

Method: ASTM D3330

Backing: 2 mil Aluminum Foil

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

Typical Environmental Performance

Property	Values
Humidity Resistance	No adverse effect on the bond after exposure to 100% relative humidity at 100°F (38°C)
U.V. Resistance	Adhesive is resistant to oxidation and ozone when exposed to air or ultraviolet light.
Bond Build-Up	The bond strength of the adhesive increases as a function of time and temperature.

Storage and Shelf Life

Product retains its performance properties for 24 months from date of manufacture if properly stored at room temperature conditions of 72°F (22°C) and 50% relative humidity.

Information

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Trademarks

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References

Safety Data Sheet (SDS)

https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=6038PC

Family Group

	6035PC	6035PL	6038PC	6038PL
Relative High Temperature Operating Ranges (°C) Test Condition: Short Term (minutes, hours)	121	121	121	121
Adhesive Type	#300MP Acrylic Adhesive	#300MP Acrylic Adhesive	#300MP Acrylic Adhesive	#300MP Acrylic Adhesive
Adhesive Thickness (mm)	0.127	0.127	0.203	0.203
Liner	58# Polycoated Kraft Paper	83# Polycoated Kraft Paper	58# Polycoated Kraft Paper	83# Polycoated Kraft Paper
Liner Thickness (mm)	0.107	0.157	0.107	0.157

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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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