



Technical Data Sheet

3M™ Adhesive Transfer Tape 6038PC



[Regulatory Info/SDS](#)

Product Description

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

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

Attribute Name	Test Method	Value
Adhesive Type		300MP Acrylic
Total Tape Thickness	ASTM D3652	0.203 mm (8 mil)
Liner		58# Polycoated Kraft Paper
Liner Thickness		0.107 mm (4.2 mil)

Typical Performance Characteristics

90° Peel Adhesion

Backing: 2 mil Aluminum Foil

Test Method: ASTM D3330

Dwell Time	Temperature	Substrate	Value
15 min	22 °C (72 °F)	Polycarbonate (PC)	13.7 N/cm (125 oz/in) ¹
15 min	22 °C (72 °F)	Stainless Steel	18.1 N/cm (165 oz/in) ¹
72 h	22 °C (72 °F)	ABS	15.7 N/cm (143 oz/in) ¹
72 h	22 °C (72 °F)	Polycarbonate (PC)	16 N/cm (146 oz/in) ¹
72 h	22 °C (72 °F)	Polypropylene (PP)	10.5 N/cm (96 oz/in) ¹
72 h	22 °C (72 °F)	Stainless Steel	23 N/cm (210 oz/in) ¹
72 h	70 °C (158 °F)	ABS	13.1 N/cm (120 oz/in) ¹
72 h	70 °C (158 °F)	Polycarbonate (PC)	11.6 N/cm (106 oz/in) ¹
72 h	70 °C (158 °F)	Polypropylene (PP)	9 N/cm (82 oz/in) ¹
72 h	70 °C (158 °F)	Stainless Steel	27 N/cm (247 oz/in) ¹

¹ 12 in/min (300 mm/min)

Attribute Name	Value
Short Term Temperature Resistance	121 °C (250 °F) ¹
Long Term Temperature Resistance	93 °C (200 °F) ²
Flammability Test	Pass FMVSS 302/SAE J369

¹ Short Term (minutes, hour)

² Long Term (day, weeks)

Typical Environmental Performance

90° Peel Adhesion

Substrate: Stainless Steel

Backing: 2 mil Aluminum Foil

Dwell Time	Temperature	Environmental Condition	Value
1 h	22 °C (72 °F)	Gasoline	13.9 N/cm (127 oz/in) ¹
1 h	22 °C (72 °F)	MEK	10.2 N/cm (93 oz/in) ¹
4 h	22 °C (72 °F)	Weak Acid (pH 4)	15.2 N/cm (139 oz/in) ¹
4 h	22 °C (72 °F)	Weak Base (pH 10)	14.5 N/cm (132 oz/in) ¹
72 h	22 °C (72 °F)	Salt water (5 wt% in water)	22.2 N/cm (203 oz/in) ¹
72 h	49 °C (120 °F)	Oil 10W30	19.6 N/cm (179 oz/in) ¹
72 h		Temperature Cycling: 4 Hours at 70°C (158°F). 4 Hours at -29°C (-20°F). 16 Hours at 22°C (72°F). Repeat three times	24.1 N/cm (200 oz/in) ¹
100 h	22 °C (72 °F)	Water	15.2 N/cm (139 oz/in) ¹
7 d	32 °C (90 °F)	90%RH	23.5 N/cm (215 oz/in) ¹
30 d	22 °C (72 °F)	UV exposure	24.1 N/cm (220 oz/in) ¹

¹ 12 in/min (300 mm/min)

Attribute Name	Temperature	Value
Automotive Fogging Test	100 °C (212 °F)	99
UV Resistance		Adhesive is resistant to oxidation and ozone when exposed to air or ultraviolet light.

Typical Environmental Characteristics

Bond Build-Up

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

Humidity Resistance

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

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

Automotive Disclaimer

Select Automotive Applications:

This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

Information

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Disclaimer: 3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, or death. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3m.com.

ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

3M™ Industrial Adhesives and Tapes Division
3M Center, St. Paul, MN 55144-1000
3M.com/iatd

3M is a trademark of 3M Company.
©3M 2024 (6/24)