



## 3M™ Adhesive Transfer Tape 6038PC

Last Revision Date: May, 2022

### 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

Property	Values	Additional Information
Adhesive Type	#300MP Acrylic Adhesive	
Liner	58# Polycoated Kraft Paper	
Liner Thickness	0.107 mm	
Total Tape Thickness (mil)	8 mil	View
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.203 mm	View
Test Method: ASTM D3652		
Liner Print	None	

Liner Thickness 4.2 mil

## Typical Performance Characteristics

Property	Values	Additional Information
90° Peel Adhesion	18.1 N/cm	View 
Test Method: ASTM D3330  Dwell/Cure Time: 15.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Backing: 2 mil Aluminum Foil		
90° Peel Adhesion	165 oz/in	View 
Test Method: ASTM D3330  Dwell/Cure Time: 15.0 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	13.7 N/cm	View 
Test Method: ASTM D3330  Dwell/Cure Time: 15.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polycarbonate (PC) Backing: 2 mil Aluminum Foil  Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	125 oz/in	View 
Test Method: ASTM D3330  Dwell/Cure Time: 15.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Substrate: Polycarbonate (PC) Backing: Aluminum Foil		
90° Peel Adhesion	23 N/cm	View 
Test Method: ASTM D3330  Backing: 2 mil Aluminum Foil  Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	210 oz/in	View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0  
 Dwell Time Units: hr  
 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

27 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: Stainless Steel  
 Backing: 2 mil Aluminum Foil

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

90° Peel Adhesion

247 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)

90° Peel Adhesion

15.7 N/cm

View 

Test Method: ASTM D3330

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

143 oz/in

View 

Test Method: ASTM D3330

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

10.5 N/cm

View 

Test Method: ASTM D3330

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

96 oz/in

View 

Test Method: ASTM D3330

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

16 N/cm

View 


Test Method: ASTM D3330

Dwell/Cure Time: 72.0  
 Dwell Time Units: hr  
 Temp C: 23C  
 Temp F: 72F  
 Environmental Condition: 50%RH  
 Substrate: Polycarbonate (PC)  
 Backing: 2 mil Aluminum Foil

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

90° Peel Adhesion

146 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0  
 Dwell Time Units: hr  
 Temp C: 23C  
 Temp F: 72F  
 Environmental Condition: 50%RH  
 Substrate: Polycarbonate (PC)  
 Backing: 2 mil Aluminum Foil

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

Short Term Temperature Resistance

250 °F

Short Term Temperature Resistance

121 °C

Long Term Temperature Resistance

93 °C

Long Term Temperature Resistance

200 °F

UV Resistance

Adhesive is resistant to oxidation and ozone when exposed to air or ultraviolet light.

## Environmental Resistance

13.9 N/cm

View 

Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 1.0  
 Dwell Time Units: hr  
 Temp C: 23C  
 Temp F: 72F  
 Environmental Condition: Gasoline  
 Substrate: Stainless Steel  
 Backing: 2 mil Aluminum Foil

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

## Environmental Resistance

127 oz/in

View 

Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 1.0  
 Dwell Time Units: hr  
 Temp C: 23C  
 Temp F: 72F  
 Environmental Condition: Gasoline  
 Substrate: Stainless Steel  
 Backing: 2 mil Aluminum Foil

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

## Environmental Resistance

10.2 N/cm

View 

Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 1.0  
 Dwell Time Units: hr  
 Temp C: 23C  
 Temp F: 72F  
 Environmental Condition: MEK  
 Substrate: Stainless Steel  
 Backing: 2 mil Aluminum Foil

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

## Environmental Resistance

93 oz/in

View 

Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 1.0  
 Dwell Time Units: hr  
 Temp C: 23C  
 Temp F: 72F  
 Environmental Condition: MEK  
 Substrate: Stainless Steel  
 Backing: 2 mil Aluminum Foil

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

## Environmental Resistance

15.2 N/cm


View 

Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 4.0  
 Dwell Time Units: hr  
 Temp C: 23C  
 Temp F: 72F  
 Environmental Condition: Weak Acid (pH 4)  
 Substrate: Stainless Steel  
 Backing: 2 mil Aluminum Foil

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

## Environmental Resistance


139 oz/in

View 


Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 4.0  
 Dwell Time Units: hr  
 Temp C: 23C  
 Temp F: 72F  
 Environmental Condition: Weak Acid (pH 4)

Substrate: Stainless Steel  
Backing: 2 mil Aluminum Foil


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

Environmental Resistance 14.5 N/cm View 

Test Name: 90° Peel Adhesion  
Dwell/Cure Time: 4.0  
Dwell Time Units: hr  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: Weak Base (pH 10)  
Substrate: Stainless Steel  
Backing: 2 mil Aluminum Foil  
  
Notes: 12 in/min (300 mm/min)

Environmental Resistance 132 oz/in View 

Test Name: 90° Peel Adhesion  
Dwell/Cure Time: 4.0  
Dwell Time Units: hr  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: Weak Base (pH 10)  
Substrate: Stainless Steel  
Backing: 2 mil Aluminum Foil  
  
Notes: 12 in/min (300 mm/min)

Environmental Resistance 19.6 N/cm View 


Test Name: 90° Peel Adhesion  
Dwell/Cure Time: 72.0  
Dwell Time Units: hr  
Temp C: 49C  
Temp F: 120F  
Environmental Condition: Oil 10W30  
Substrate: Stainless Steel  
Backing: 2 mil Aluminum Foil  
  
Notes: 12 in/min (300 mm/min)

Environmental Resistance 179 oz/in View 

Test Name: 90° Peel Adhesion  
Dwell/Cure Time: 72.0  
Dwell Time Units: hr  
Temp C: 49C  
Temp F: 120F  
Environmental Condition: Oil 10W30  
Substrate: Stainless Steel  
Backing: 2 mil Aluminum Foil  
  
Notes: 12 in/min (300 mm/min)

Environmental Resistance 15.2 N/cm View 

Test Name: 90° Peel Adhesion  
Dwell/Cure Time: 100.0  
Dwell Time Units: hr  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: Water  
Substrate: Stainless Steel  
Backing: 2 mil Aluminum Foil  
  
Notes: 12 in/min (300 mm/min)

Environmental Resistance 139 oz/in View 

Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 100.0  
 Dwell Time Units: hr  
 Temp C: 23C  
 Temp F: 72F  
 Environmental Condition: Water  
 Substrate: Stainless Steel  
 Backing: 2 mil Aluminum Foil

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

Environmental Resistance

23.5 N/cm

View 

Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 7.0  
 Dwell Time Units: day  
 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)

Environmental Resistance

215 oz/in

View 

Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 7.0  
 Dwell Time Units: day  
 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)

Environmental Resistance

24.1 N/cm

View 

Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 72.0  
 Dwell Time Units: hr  
 Environmental Condition: Temperature Cycling: 4 Hours at 158°F (70°C). 4 Hours at -20°F (-29°C). 16 Hours at Room Temperature. Repeat three times  
 Substrate: Stainless Steel  
 Backing: 2 mil Aluminum Foil

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

Environmental Resistance

200 oz/in

View 

Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 72.0  
 Dwell Time Units: hr  
 Environmental Condition: Temperature Cycling: 4 Hours at 158°F (70°C). 4 Hours at -20°F (-29°C). 16 Hours at Room Temperature. Repeat three times  
 Substrate: Stainless Steel  
 Backing: 2 mil Aluminum Foil

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

Environmental Resistance

22.2 N/cm

View 

Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 72.0  
 Dwell Time Units: hr  
 Temp C: 23C  
 Temp F: 72F  
 Environmental Condition: Salt water (5 wt% in water)  
 Substrate: Stainless Steel  
 Backing: 2 mil Aluminum Foil

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

Environmental Resistance

203 oz/in



View 

Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 72.0  
 Dwell Time Units: hr  
 Temp C: 23C  
 Temp F: 72F  
 Environmental Condition: Salt water (5 wt% in water)  
 Substrate: Stainless Steel  
 Backing: 2 mil Aluminum Foil

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

Environmental Resistance 24.1 N/cm

View 

Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 30.0  
 Dwell Time Units: day  
 Environmental Condition: UV exposure  
 Substrate: Stainless Steel  
 Backing: 2 mil Aluminum Foil

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

Environmental Resistance 220 oz/in

View 


Test Name: 90° Peel Adhesion  
 Dwell/Cure Time: 30.0  
 Dwell Time Units: day  
 Environmental Condition: UV exposure  
 Substrate: Stainless Steel  
 Backing: 2 mil Aluminum Foil

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

Flammability Test Pass FMVSS 302/SAE J369

Automotive Fogging Test 99

90° Peel Adhesion 11.6 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: Polycarbonate (PC)  
 Backing: 2 mil Aluminum Foil

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

90° Peel Adhesion 106 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: Polycarbonate (PC)  
 Backing: 2 mil Aluminum Foil

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

90° Peel Adhesion 9 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

82 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

13.1 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

120 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)

## Typical Environmental Performance

Property	Values	Additional Information
Humidity Resistance	No adverse effect on the bond after exposure to 100% relative humidity at 100°F (38°C)	
Bond Build-Up	The bond strength of the adhesive increases as a function of time and temperature.	

## Storage and Shelf Life

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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.

## Bottom Matter

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3M

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## Trademarks

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3M is a trademark of 3M Company.

## Automotive Disclaimer

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## References

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Property	Values
3m.com Product Page	<a href="https://www.3m.com/3M/en_US/p/d/b40071704/">https://www.3m.com/3M/en_US/p/d/b40071704/</a>
Safety Data Sheet SDS	<a href="https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=6038PC">https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=6038PC</a>

## ISO Statement

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

## Information

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