



# Technical Data Sheet

## 3M™ Adhesive Transfer Tape F9755PC



[Product Details](#)



[Regulatory Info/SDS](#)

### Product Description

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

3M™ Adhesive Transfer Tape F-9755PC with 3M™ Adhesive 420 is a high performance adhesive system that offers the ability to make adhesive bonds at temperatures as low as 32°F (0°C). This product utilizes a 58 lb. polycoated liner for moisture stability.

### Product Features

Adhesive 420 is a medium firm acrylic pressure-sensitive adhesive system. It features high adhesion to a variety of surfaces, excellent shear holding power, high temperature resistance and excellent UV resistance.

### 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
Color		Clear
Adhesive Type		420
Total Tape Thickness	ASTM D3652	0.13 mm (5 mil)
Liner		Moisture Resistant Paper
Liner Thickness		0.1 mm (4 mil)
Primary Liner Color		Tan

### Typical Performance Characteristics

#### 180° Peel Adhesion

Temperature: 22 °C (72 °F)

Dwell Time: 72 h

Test Method: ASTM D3330

Substrate	Value
ABS	8.6 N/cm (80 oz/in) <sup>1</sup>
Acrylic (PMMA)	6.5 N/cm (74 oz/in) <sup>1</sup>
Epoxy	8.3 N/cm (77 oz/in) <sup>1</sup>
Glass	7.5 N/cm (70 oz/in) <sup>1</sup>
High Density Polyethylene (HDPE)	2.7 N/cm (25 oz/in) <sup>1</sup>
Low Density Polyethylene (LDPE)	1.6 N/cm (15 oz/in) <sup>1</sup>
Painted Metal	6.8 N/cm (63 oz/in) <sup>1</sup>
Polycarbonate (PC)	6.5 N/cm (74 oz/in) <sup>1</sup>
Stainless Steel	7.5 N/cm (70 oz/in) <sup>1</sup>

<sup>1</sup> 12 in/min (300 mm/min)

## Static Shear

Substrate: Stainless Steel  
Dwell Time: 72 h  
Backing: 2 mil Aluminum Foil  
Test Method: ASTM D3654

Temperature	Test Condition	Value
22 °C (72 °F)	1000g	>10,000 min <sup>1</sup>
70 °C (158 °F)	500g	>10,000 min <sup>1</sup>
93 °C (200 °F)	400g	>10,000 min <sup>1</sup>
121 °C (250 °F)	300g	>10,000 min <sup>1</sup>
149 °C (300 °F)	300g	>10,000 min <sup>1</sup>
177 °C (350 °F)	300g	>10,000 min <sup>1</sup>
232 °C (450 °F)	200g	>10,000 min <sup>1</sup>

<sup>1</sup> 1 in x 1 in sample area, test terminated after 10,000 minutes

Attribute Name	Value
Short Term Temperature Resistance	232 °C (450 °F) <sup>1</sup>
Long Term Temperature Resistance	149 °C (300 °F) <sup>2</sup>

<sup>1</sup> Short Term (minutes, hour)

<sup>2</sup> Long Term (day, weeks)

Substrate: Polypropylene (PP)  
Temperature: 22 °C (72 °F)  
Dwell Time: 72 h

Attribute Name	Test Method	Value
180° Peel Adhesion	ASTM D3330	4.3 N/cm (40 oz/in) <sup>1</sup>

<sup>1</sup> 12 in/min (300 mm/min)

## Typical Environmental Performance

Attribute Name	Value
Solvent Resistance	Very Good
UV Resistance	Excellent

## Handling/Application Information

### Application Examples

- These tapes are ideal for joining a variety of similar and dissimilar materials where high bond strength and high temperature performance are required and are also ideal for many applications where excellent UV resistance is required.
- 2 mil thick tapes can generally be used for joining materials that are relatively smooth, thin and have low residual stress. For materials with a rough or textured surface, the thicker adhesive film of the 5 mil tapes would be more appropriate for evaluation.

### Application Techniques

- Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improve bond strength.
- To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Typical surface cleaning solvents are isopropyl alcohol and water (rubbing alcohol) or heptane. Note: Be sure to follow the manufacturer's precautions and directions for use when using solvents.
- Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended for most pressure sensitive adhesives because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory. 3M™ Adhesive Transfer Tapes F-9752PC and F-9755PC can be bonded at temperatures as low as 32°F (0°C).
- Ultimate bond strength can be accelerated by exposure of the bond to elevated temperatures, such as 150°F (66°C)

for about one hour.

### Application Equipment

For additional dispenser information, contact your local 3M sales representative, or the toll free 3M sales assistance number at 1-800-362-3550.

### Storage and Shelf Life

Product retains its performance and properties for 24 months from date of manufacture when stored in original cartons at 70°F (21°C) and 50% relative humidity.

### Available Sizes

Attribute Name	Width	Value
Core Size (ID)		76.2 mm (3 in)
Maximum Available Width		54 in
Maximum Length	1/2 in to 1 in widths	165 m (180 yd)
Maximum Length	1 in to maximum	329 m (360 yd)
Minimum Available Width		1/2 in
Normal Slitting Tolerance		±0.8 mm (±1/32 in)
Note		Subject to Minimum Order Requirements
Standard Roll Length		54.9 m (60 yd)

### Recognition/Certification

#### MSDS

3M has not prepared a MSDS for these products which are not subject to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R. 1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, the products should not present a health and safety hazard. However, use or processing of the products in a manner not in accordance with the directions for use may affect their performance and present potential health and safety hazards.

#### TSCA

These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.

### 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.

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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.

## **For Additional Information**

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit [www.3M.com/adhesives](http://www.3M.com/adhesives). Address correspondence to: 3M Engineered Adhesives Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

3M  
Industrial Adhesives and Tapes Division  
3M Center, Building 225-3S-06  
St. Paul, MN 55144-1000  
800-362-3550

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