



Technical Data Sheet

3M[™] Adhesive Transfer Tape with Plasticizer Resistant Adhesive F9465PC



Last Revision Date: September, 2024



Supersedes: June, 2024

English-US

Product Details

Regulatory Info/SDS

Product Description

3M™ Adhesive Transfer Tape F9465PC is an acrylic pressure sensitive adhesive which has been formulated for bonding to many flexible vinyls and provide outstanding resistance to the effects of plasticizer migration from flexible vinyls.

General Information

Note: Vinyl formulations differ and plasticizer types and amounts can vary. The most common types of Plasticized Vinyl contain low molecular weight materials (plasticizers) which tend to migrate out of the vinyl. In the case of adhesive bonding, these plasticizers migrate into the adhesive which can cause softening of the adhesive and loss of bond strength over time.

• The possible effect of plasticizer migration on an adhesive bond can be predicted by accelerated aging for 5 days at elevated temperature (150°F [65°C]).

Note:Due to the variability of vinyl formulations, we strongly recommend that the user test each vinyl substrate to

determine suitability of the tape for the particular application.

• Natural and synthetic rubber materials such as neoprene and EPDM are also formulated with fillers and plasticizers. Note:3M™ Adhesive Transfer Tape F-9465PC does not resist the effects of these particular fillers and plasticizers and is not recommended for use in bonding these materials.

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		Acrylic
Total Tape Thickness	ASTM D3652	0.13 mm (5 mil)
Liner		Polycoated Paper
Liner Thickness		0.1 mm (4.2 mil)
Primary Liner Color		Tan, printed

Typical Performance Characteristics

Substrate: Stainless Steel Temperature: 23 °C (73 °F)

Dwell Time: 72 h

Attribute Name	Test Method	Value
180° Peel Adhesion	ASTM D3330	8.1 N/cm (74 oz/in) ¹

^{1 304} mm/min (12 in/min)

Temperature: 23 °C (73 °F) Test Condition: 500 g

Attribute Name	Value
Static Shear	10,000 min ¹

 $^{^{1}}$ 13 x 25 mm (0.5 x 1 in) sample area, test terminated at 10,000 minutes

Attribute Name	Value
Short Term Temperature Resistance	149 °C (300 °F) ¹
Long Term Temperature Resistance	93 °C (200 °F) ²

¹ Short Term (minutes, hour)

Typical Environmental Characteristics

Environmental Resistance

Bond Build-up: The bond strength of 3M™ Plasticizer Resistant Adhesive increases as a function of time and temperature

Temperature/Heat Resistance: 3M™ Plasticizer Resistant Adhesive is usable for short periods (minutes, hours) at temperatures up to 200°F (94°C) and for intermittent longer periods (days, weeks) up to 160°F (71°C).

Lower Temperature Service Limit:-40°F (-40°C).

UV Resistance:When properly applied, parts are not adversely affected by outdoor exposure.

Handling/Application Information

Application Examples

- Attaching flexible vinyl graphics to sporting helmets
 Attaching flexible vinyl films and graphics to signs
- Attaching flexible vinyl graphics to vehicles
 Attaching flexible vinyl graphics to collectibles
- Attaching flexible vinyl tubing

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.

Available Sizes

Attribute Name	Value
Master Width	1371.6 mm (54 in) ¹

¹ More sizes may be available. Please talk to your local 3M representative for more information.

Recognition/Certification

TSCA: This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements

MSDS:3M has not prepared a MSDS for this product which is not subjected 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, this product should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.

Note:One of 3M's core values is to respect our social and physical environment, 3M is committed to comply with ever-changing, global, regulatory and consumer environmental, health, and safety (EHS) requirements. As a service to our customers, 3M is providing information on the regulatory status of many 3M products. Further regulation information including that for OSHA, USCPSI, FDA, California Proposition 65, READY and RoHS, can be found at 3M.com/regs.

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.

² Long Term (day, weeks)

Information

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ISO Statement

This 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.

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