



# Technical Data Sheet

## 3M™ Adhesive Transfer Tape with Plasticizer Resistant Adhesive F9465PC



### 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 ofPlasticized 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

| Property                   | Values           | Additional Information |
|----------------------------|------------------|------------------------|
| Adhesive Type              | Acrylic          |                        |
| Liner                      | Polycoated Paper |                        |
| Liner Thickness            | 0.1 mm           |                        |
| Liner Color                | Tan, printed     | View ^                 |
| Test Name: Primary         |                  |                        |
| Total Tape Thickness (mil) | 5 mil            | View ^                 |
| Test Method: ASTM D3652    |                  |                        |
| Total Tape Thickness (mm)  | 0.13 mm          | View ^                 |
| Test Method: ASTM D3652    |                  |                        |

|             |      |
|-------------|------|
| Liner Print | None |
|-------------|------|

|                 |         |
|-----------------|---------|
| Liner Thickness | 4.2 mil |
|-----------------|---------|

### Typical Performance Characteristics

|                                   |        |                        |
|-----------------------------------|--------|------------------------|
| Property                          | Values | Additional Information |
| Short Term Temperature Resistance | 300 °F |                        |


|                                   |        |  |
|-----------------------------------|--------|--|
| Short Term Temperature Resistance | 149 °C |  |
|-----------------------------------|--------|--|

|                                  |       |  |
|----------------------------------|-------|--|
| Long Term Temperature Resistance | 93 °C |  |
|----------------------------------|-------|--|

|                                  |        |  |
|----------------------------------|--------|--|
| Long Term Temperature Resistance | 200 °F |  |
|----------------------------------|--------|--|

|              |           |  |
|--------------|-----------|--|
| Static Shear | 10000 min | View  |
|--------------|-----------|--|

Notes: 1/2 in x 1 in sample size; Test terminated at 10,000 min

|                    |          |  |
|--------------------|----------|--|
| 180° Peel Adhesion | 8.1 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: Stainless Steel

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


|                    |          |  |
|--------------------|----------|--|
| 180° Peel Adhesion | 74 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

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

### Available Sizes

|              |           |  |
|--------------|-----------|--|
| Property     | Values    | Additional Information   |
| Master Width | 1371.6 mm | View  |

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

|   |       |  |
|---|-------|--|
| Master Width  | 54 in | View  |
| Notes: More sizes may be available. Please talk to your local 3M representative for more information. |       |  |

## Typical Environmental Performance

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.

## Storage and Shelf Life

Store in original cartons at 70°F (21°C) and 50% relative humidity.

When stored under proper conditions, product retains its performance and properties for 24 months from date of manufacture.

## 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](http://3M.com/regs).

## Bottom Matter

3M  
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## Trademarks

3M is a trademark of 3M Company.

## 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 Industrial Adhesives and Tapes Division, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55144-1000. Our fax number is 651-778-4244. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

## Automotive Disclaimer

Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, including, but not limited to, automotive electric powertrain battery or high voltage applications. This product does not fully adhere to typical automotive design or quality system requirements, such as IATF 16949 or VDA 6.3. This product may not be manufactured in an IATF certified facility and may not meet a Ppk of 1.33 for all properties. The product may not undergo an automotive production part approval process (PPAP). Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer’s automotive application and for conducting incoming inspections before use of the product. Failure to do so may result in injury, death, and/or harm to property. No written or verbal statement, report, data or recommendation by 3M related to automotive use of the product shall have any force or effect unless in an agreement signed by the Technical Director of 3M’s Automotive Division. Customer assumes all responsibility and risk if customer chooses to use this product in an automotive electric powertrain battery or high voltage application, and 3M will not be liable for any loss or damage arising from or related to the 3M product or customer’s use of the product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity or recall costs), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability. In no event shall 3M be liable for any damages in excess of the

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## 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

## References

| Property              | Values  |
|-----------------------|---|
| 3m.com Product Page   | <a href="https://www.3m.com/3M/en_US/p/d/b40065901/">https://www.3m.com/3M/en_US/p/d/b40065901/</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=F9465PC">https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=F9465PC</a> |

## Family Group

Link Tags:

- F9465PC

• F9467U

| Products | Adhesive Type | Liner            | Liner Thickness | Liner Color  | Total Tape Thickness (mm) | Short Term Temperature Resistance | Long Term Temperature Resistance |
|----------|---------------|------------------|-----------------|--------------|---------------------------|-----------------------------------|----------------------------------|
| F9465PC  | Acrylic       | Polycoated Paper | 0.1 mm          | Tan, printed | 0.13 mm                   | 149 °C                            | 200 °F                           |
| F9467U   | Acrylic       | Polycoated Paper | 0.1 mm          | Tan          | 0.089 mm                  | 149 °C                            | 200 °F                           |

## ISO Statement

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

## Information

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