

February, 2015

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.



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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

| Property | Values | | Notes |
|--------------------|------------------|---------|---|
| Adhesive Thickness | 0.13 mm | 5 mil | The thickness listed is based on a calculation from manufacturing controlled adhesive coat weights using a density of 1.012 g/cc. While past data pages have listed nominal thicknesses, the coat weight (and theoretical caliper) has not changed. |
| Liner | Polycoated Paper | | |
| Liner Thickness | 0.1 mm | 4.2 mil | The thickness listed is based on a calculation from manufacturing controlled adhesive coat weights using a density of 1.012 g/cc. While past data pages have listed nominal thicknesses, the coat weight (and theoretical caliper) has not changed. |
| Liner Color | Tan, printed | | |

Typical Performance Characteristics

| Property | Values | | Test Condition | Notes | Method | Substrate |
|--------------|------------|--|--------------------------|--|--------|-----------|
| Static Shear | 10,000 min | | 500 g @ Room Temperature | 1/2 in x 1 in sample size; Test terminated at 10,000 min | | |

Table continued on next page

Typical Performance Characteristics (continued)

| Property | Values | | Test Condition | Notes | Method | Substrate |
|--------------------|----------|----------|------------------|-------|------------|-----------------|
| 180° Peel Adhesion | 8.1 N/cm | 74 oz/in | Room Temperature | | ASTM D3330 | Stainless Steel |

Available Sizes

| Property | Values | | Notes |
|--------------|-----------|-------|---|
| Master Width | 1371.6 mm | 54 in | More sizes may be available. Please call 800-223-7427 or talk to your local 3M representative for more information. |

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.

Handling/Application Information

Application Ideas

- 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 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.

Trademarks

3M is a trademark of 3M Company.

References

Safety Data Sheet (SDS)

https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=F9465PC

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Family Group

| | F9465PC | F9467U |
|-------------------------|------------------|------------------|
| Adhesive Thickness (mm) | 0.13 | 0.089 |
| Liner | Polycoated Paper | Polycoated Paper |
| Liner Thickness (mm) | 0.1 | 0.1 |
| Liner Color | Tan, printed | Tan |

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. 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.

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.

Technical Information

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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. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluation the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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