# Technical Data Sheet

3M™ Adhesive Transfer Tape 9375W

English-US

**Last Revision Date:** September, 2024

**Supersedes:** June, 2024



## Product Description

3M™ Adhesive Transfer Tapes are acrylic based and specially formulated to provide a permanent bond between substrates in environments requiring regulatory compliance with flame retardant standards such as Federal Aviation Regulation 25.853.

## Product Features

Flame Retardant

## 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 | | Off White (opaque) |
| Adhesive Type | | Tackified Acrylic, 300FR Series |
| Areal Density | | 188 g/m² |
| Net Weight | | 83 lb/Ream |
| Total Tape Thickness | ASTM D3652 | 0.127 mm (0.005 in) (5 mil) |
| Thickness Tolerance | | ±15 % |
| Liner | | PCK |
| Liner Thickness | | 0.17 mm (6.5 mil) |
| Primary Liner Color | | Tan, unprinted |

## 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 | 14 N/cm (126 oz/in) [1] |

[1] 304 mm/min (12 in/min)

### 90° Peel Adhesion

Dwell Time: 72 h
Backing: 2 mil PET
Test Method: ASTM D3330

| Temperature | Substrate | Value |
|---|---|---|
| 23 °C (73 °F) | ABS | 9.4 N/cm (86 oz/in) [1] |
| 23 °C (73 °F) | High Density Polyethylene (HDPE) | 7.3 N/cm (67 oz/in) [1] |
| 23 °C (73 °F) | Polycarbonate (PC) | 9.5 N/cm (87 oz/in) [1] |
| 23 °C (73 °F) | Polypropylene (PP) | 6 N/cm (55 oz/in) [1] |
| 23 °C (73 °F) | Stainless Steel | 11.7 N/cm (107 oz/in) [1] |

| Temperature | Substrate | Value |
|---|---|---|
| 70 °C (158 °F) | Stainless Steel | 17.5 N/cm (160 oz/in) [1] |

[1] 304 mm/min (12 in/min)

**Static Shear**

Test Method: ASTM D3654

| Temperature | Test Condition | Value |
|---|---|---|
| 23 °C (73 °F) | 1000 g | >10,000 min [1] |
| 70 °C (158 °F) | 500 g | >10,000 min [1] |

[1] 25 x 25 mm (1 in x 1 in) sample area, test terminated after 10,000 minutes

| Attribute Name | Value |
|---|---|
| Short Term Temperature Resistance | 121 °C (250 °F) [1] |
| Long Term Temperature Resistance | 82 °C (180 °F) [2] |

[1] Short Term (minutes, hour)

[2] Long Term (day, weeks)

## Typical Environmental Performance

| Attribute Name | Value |
|---|---|
| Solvent Resistance | Very Good |
| UV Resistance | Very Good |

## Handling/Application Information

**Application Examples**

This family of products has been formulated for applications requiring flame retardancy and high bond strength to a wide variety of substrates.

These attributes and choice of three product thicknesses make the products ideally suited to applications in aerospace, maritime, electronic, automotive and building construction applications on both smooth and textured substrates.

**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. 15 psi momentary pressure is typical.

Ideal tape application temperature range is 70°F to 100°F (21°C to 37°C). Initial tape application to surface at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once applied, low temperature holding is generally satisfactory.

Surfaces should be clean and dry prior to bonding. We recommend a final surface cleaning with a mixture of 50% isopropyl alcohol* and water.

Two liner options facilitate wide array of application techniques. Densified kraft liner ideal for roll to roll lamination and subsequent rotary die cutting. Heavy caliper, layflat, polycoated kraft liner, minimizes surface asperities, minimizes distortion of pre-laminated substrates in variable humidity conditions and provide convenient backing for kiss cutting operations.

*Carefully read and follow the manufacturer’s precautions and directions for use when using cleaning solvents.

**Application Equipment**

To apply adhesives in a wide web format, lamination equipment is required to ensure acceptable quality.

To learn more about working with pressure-sensitive adhesives please refer to technical bulletin, Lamination Techniques for Converters of Laminating Adhesives (70-0704-1430-8).

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

## Certifications/Standards

**Federal Aviation Regulations, FAR 25.853**

Yes

**Underwriter Laboratories 94, UL-94 (V-2)**

Yes

## Industry Specifications

UL 94 (V-2)
FAR 25.853

## 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 18 months from date of manufacture.

## Available Sizes

| Attribute Name | Value |
|---|---|
| Core Size (ID) | 76.2 mm (3 in) |
| Maximum Available Width | 60 in |
| Normal Slitting Tolerance | ±0.8 mm (±1/32 in) |
| Precision Slitting Tolerance | ±0.1 mm (±0.004 in) [1] |
| Standard Roll Length | 180 m |

[1] Precision slitting is available on select products with minimum order of full web increments.

## Available Sizes - Detailed

| Minimum Slit Width: | | 1" up to 3" | 1/2" up to 3" | 2" up to 3" |
|---|---|---|---|---|
| | minimum length | 60 yards | 60 yards | 60 yards |
| | maximum length | 180 yards | 180 yards | 180 yards |
| 3" to 30" | minimum length | 60 yards | 60 yards | 60 yards |
| | maximum length | 720 yards | 720 yards | 720 yards |
| 31" to 48" | minimum length | – | – | 60 yards |
| | maximum length | – | – | 500 yards |
| 31" to 60" | minimum length | 60 yards | 60 yards | – |
| | maximum length | 500 yards | 500 yards | – |

## 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 product was manufactured under a 3M quality system registered to ISO 9001 standards.

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