



Technical Data Sheet

3M™ Laminating Adhesive 9459W



[Product Details](#)

Product Description

This laminating adhesive is pigmented to increase the opacity of sub-surface graphics printed labels.

Product Features

- Can be used when constructing custom tamper-indicating labels.

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		White
Adhesive Type		#300 "Hi-Strength" Acrylic
Total Tape Thickness	ASTM D3652	0.0375 mm (1.5 mil)
Liner		55# Densified Kraft
Liner Print		3M
Liner Thickness		0.08 mm (3.2 mil)

Typical Performance Characteristics

90° Peel Adhesion

Temperature: 23 °C (73 °F)

Backing: 2 mil PET

Test Method: ASTM D3330

Dwell Time	Substrate	Value
20 min	Stainless Steel	3 N/cm (27 oz/in) ¹
72 h	Polycarbonate (PC)	3.7 N/cm (34 oz/in) ¹
72 h	Polypropylene (PP)	2 N/cm (18 oz/in) ¹
72 h	Stainless Steel	3.5 N/cm (32 oz/in) ¹

¹ 304 mm/min (12 in/min)

Attribute Name	Value
Short Term Temperature Resistance	121 °C (250 °F) ¹
Long Term Temperature Resistance	70 °C (158 °F) ²

¹ Short Term (minutes, hour)

² Long Term (day, weeks)

Typical Environmental Performance

90° Peel Adhesion

Substrate: Aluminum

Dwell Time	Temperature	Environmental Condition	Value
4 h	23 °C (73 °F)	Weak Acid (pH 4)	3.4 N/cm (31 oz/in) ¹
1 h	23 °C (73 °F)	Freon TF	3.5 N/cm (32 oz/in) ¹
1 h	23 °C (73 °F)	MEK	3 N/cm (27 oz/in) ¹
4 h	23 °C (73 °F)	Weak Base (pH 10)	2.2 N/cm (20 oz/in) ¹
1 h	23 °C (73 °F)	Gasoline	2.8 N/cm (26 oz/in) ¹
72 h	49 °C (120 °F)	Oil 10W30	4.2 N/cm (38 oz/in) ¹
100 h	23 °C (73 °F)	Water	3.6 N/cm (33 oz/in) ¹
7 d	32 °C (90 °F)	90%RH	3.6 N/cm (33 oz/in) ¹
72 h		Temperature Cycling: 4 Hours at 70 °C (158 °F). 4 Hours at -29 °C (-20 °F). 16 Hours at 23 °C (73 °F). Repeat three times	4.6 N/cm (42 oz/in) ¹

¹ The properties defined are based on the attachment of impervious faceplate materials (such as polyester) to an aluminum test surface. 12 inches/minute (305 mm/min).

Handling/Application Information

Application Examples

- A component in the construction of labels designed for harsh environments such as in automotive and outdoor applications.
- Used to make tamper-indicating labels with 3M custom filled and solution components. These labels may be used as seals for over-the counter drugs, nontransferable automobile parts labels, fire extinguisher serial number labels and a variety of other applications.

Industry Specifications

FDA Statement

This product might be suitable for use in indirect food contact applications. Please see the applicable Regulatory Data Sheet for more information relating to FDA compliance.

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.

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.

Information

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ISO Statement

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

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