

September, 2008

3M™ Laminating Adhesive 9459W

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

Property	Values	
Color	White	
Adhesive Type	#300 "Hi-Strength" Acrylic	
Adhesive Thickness	0.0375 mm	1.5 mil
Liner	55# Densified Kraft	
Liner Thickness	0.08 mm	3.2 mil

Typical Performance Characteristics

90° Peel Adhesion		Dwell/Cure Time	Substrate
3 N/cm	27 oz/in	20 min	Stainless Steel
3.5 N/cm	32 oz/in	72 hr @ Room Temperature	Stainless Steel
3.7 N/cm	34 oz/in	72 hr @ Room Temperature	Polycarbonate (PC)
2 N/cm	18 oz/in	72 hr @ Room Temperature	Polypropylene (PP)

Property: 90° Peel Adhesion
 Method: ASTM D3330
 Backing: Polyester Film
 notes: 12 in/min (305 mm/min)

Environmental Performance (90° Peel)		Environmental Condition
2.8 N/cm	26 oz/in	Unleaded Gas at 1 Hour Room Temperature
3 N/cm	27 oz/in	MEK at 1 Hour Room Temperature
3.5 N/cm	32 oz/in	Freon TF at 1 Hour Room Temperature
3.4 N/cm	31 oz/in	Weak Acid (pH 4) at 4 Hours Room Temperature
2.2 N/cm	20 oz/in	Weak Base (pH 10) at 4 Hours Room Temperature
4.2 N/cm	38 oz/in	Oil (10W30) at 72 Hours 120°F(49°C)
3.6 N/cm	33 oz/in	Water – 100 hours, Room Temperature
3.6 N/cm	33 oz/in	7 Days at 90°F(32°C) and 90% Relative Humidity
4.6 N/cm	42 oz/in	Temperature Cycling: 4 Hours at 158°F (70°C) 4 Hours at -20°F (-29°C) 16 Hours at Room Temperature Repeat three times

Property: Environmental Performance (90° Peel)
 Substrate: Aluminum
 notes: 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 Ideas

- 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.

Storage and Shelf Life

To obtain best performance, use this product within 24 months from date of manufacture.

Information

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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=9459W

3M™ Laminating Adhesive 9459W

Family Group

	927	950	950EK	9458	9471	9472	9671	9672	9459W
Adhesive Thickness (mm)	0.05	0.13	0.13	0.025	0.05	0.13	0.05	0.13	0.0375
Liner	60# Densified Kraft	60# Densified Kraft	78# Extensible Kraft	55# Densified Kraft	60# Densified Kraft, tan with green "3M" print	60# Densified Kraft, tan with green "3M" print	83# Polycoated Kraft, tan with green "3M" print	83# Polycoated Kraft, tan with green "3M" print	55# Densified Kraft
Liner Thickness (mm)	0.09	0.09	0.13	0.08	0.09	0.09	0.15	0.15	0.08

ISO Statement

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

