



Laminating Adhesives/Data Page

FOD #0058

Scotch™ 9452, 9459W and 9459S Laminating Adhesives For Label Component Systems

Description

These laminating adhesives are pigmented to increase the opacity of sub-surface graphics printed labels. They also can be used when constructing custom tamper-indicating labels.

Product Constructions

<u>Product</u>	<u>Adhesive Color</u>	<u>Adhesive</u>	<u>Liner</u>
9452	White	1.5 mil (37.5 microns) #300 “Hi-Strength” Acrylic (Modified)	3.2 mil (80 microns) 55# Densified Kraft
9459W	White	1.5 mil (37.5 microns) #300 “Hi-Strength” Acrylic	3.2 mil (80 microns) 55# Densified Kraft
9459S	Silver	1.5 mil (37.5 microns) #300 “Hi-Strength” Acrylic	3.2 mil (80 microns) 55# Densified Kraft

Features

- 9452 is specifically designed to meet the UL 299 requirements for fire extinguisher labels.
- Pigmented adhesive increases opacity for sub-surface printed graphic labels.

Applications

- 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 Scotch brand custom film and solution components. These labels may be used as seals for over-the-counter drugs, non-transferable automobile parts labels, fire extinguisher serial number labels and a variety of other applications.

Physical Properties

(Typical values - not for specification use)

	Product	20 Minute Dwell Oz./In.
ASTM D-3330 (modified)	9452	26
90 degree peel, 12"/min.	9459W	27
(305 mm/min.) 2 mil polyester to stainless steel	9459S	31

2 mil polyester to various surfaces:	Product	72 Hr. Dwell at Room Temp. Oz./In.
- Stainless Steel (Metal)	9452	48
	9459W	32
	9459S	32
- Polycarbonate (High Surface Energy Plastic)	9452	25
	9459W	34
	9459S	35
- Polypropylene (Low Surface Energy Plastic)	9452	6
	9459W	18
	9459S	27

Environmental Performance

The properties defined are based on the attachment of impervious faceplate materials (such as polyester) to an aluminum test surface. Values are listed in ounces per inch based on a 90 degree peel at 12 inches/minute (305 mm/min).

	<u>9452</u>	<u>9459W</u>	<u>9459S</u>
Unleaded Gas at 1 Hr. Room Temp.	38	26	26
MEK at 1 Hr. Room Temp.	36	27	26
Freon TF at 1 Hr. Room. Temp.	56	32	29
Weak Acid (pH 4) at 4 Hrs. Room Temp.	48	31	29
Weak Base (pH 10) at 4 Hrs. Room Temp.	31	20	18

	<u>9452</u>	<u>9459W</u>	<u>9459S</u>
Oil (10W30) at 72 Hrs. 120 degrees F (49 degrees C)	63	38	37
Water at 100 Hrs. Room Temp.	48	33	26
7 Days at 90 degrees F (32 degrees C) and 90% Relative Humidity	77	33	20
Temperature Cycling: 4 Hrs. at 158 degrees F (70 degrees C) 4 Hrs. at -20 degrees F (-29 degrees C) 16 Hrs. at Room Temp. Repeat three times	67	42	42

Processing

For processing instructions, refer to the “Label Component System Process Guide”.

Shelf Life: One year from date of receipt of material.

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