



Laminating Adhesive for Label Components Systems 9457

Product Data Sheet

Updated : July 2000
Supersedes : June 1995

Product Description

Specifically designed for use with sub-surface graphics printing on polyester films. Also can be used when constructing custom tamper-indicating labels.

Physical Properties

Not for specification purposes

Adhesive	1.0 thou (25 micron) #400 Hi-Tack Acrylic
Liner	3.2 thou (80 micron) 89g/m ² 55# Densified Kraft
Shelf Life	24 months from date of manufacture by 3M if stored at room temperature condition in cool, dry and sun protected room.

Features:

- #400 adhesive offers excellent ultraviolet resistance and low temperature performance.
- 89g/m² (55#) kraft liner provides a superior surface for rotary die-cutting.

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, banking envelopes, non-transferable automobile inspection labels and a variety of other applications.
- A component in the construction of labels with protected, or sub-surface printed graphics, used in harsh environments such as automotive or outdoor environments.

Environmental Performance

Not for specification purposes

The properties defined are based on the attachment of impervious faceplate materials (such as polyester) to an aluminium test surface. Values are listed in N/10mm based on a 90° peel at 305 mm/min.	
Unleaded Gas : 1 hour room temperature	1.7
MEK : 1 hour room temperature	1.6
Freon TF : 1 hour room temperature	2.2
Weak Acid (pH4) : 4 hours room temperature	3.9
Weak Base (pH10) : 4 hours room temperature	2.2

Date : July 2000
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Components System 9457

**Environmental
Performance Contd...**
Not for specification purposes

The properties defined are based on the attachment of impervious faceplate materials (such as polyester) to an aluminium test surface. Values are listed in N/10mm based on a 90° peel at 305 mm/min.	
Oil (10W30) : 72 hours 49°C	2.2
Water : 100 hours room temperature	3.8
7 days at 32°C and 90% R.H.	5.7
Temperature Cycling (repeat 3 times) 4 hours at 70°C 4 hours at -29°C 16 hours at room temperature	3.4

Physical Properties
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Initial Adhesion 20 minute dwell	ASTM-D3330 (modified) 90° Peel, 305mm/min, 50 micron polyester to stainless steel. 2.2 N/10mm
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3M test 90° peel 305mm/minute 50 micron polyester to various surfaces	
	72 hour Dwell N/10mm
Stainless Steel	3.6
Polycarbonate	3.5
Polypropylene	1.7

Processing

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

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



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