



Repositionable Paper Label Material

7142

Technical Data

January 2007

Product Description

3M™ Repositionable Paper Label Material 7142 with 3M™ Adhesive 1000 offers unique, one-piece removability from many surfaces, including fragile papers, and can be repositioned repeatedly for reuse on the same surface or application to another surface.

3M label material 7142 is thermal transfer printable. Suggested ribbon inks include wax ribbons such as Sato Standard Wax and Iimac HighMark; wax/resin ribbons such as Zebra 5114, Sony Signature Series Hybrid, Dai Nippon M-230, Ricoh B110A and Sata Permier II; resin ribbons such as ICS C.C.4099-1, Sony 4041 and Astro-Med RF.

Construction

Facestock	Adhesive	Liner
2.7 mil (69 microns) 55# semi-gloss paper	Not measurable – 1000 repositionable acrylic	2.5 mil (64 microns) 40# kraft glassine

Typical Physical Properties and Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Conformability	Can conform to large diameter simple curved higher surface energy surfaces.
Printing	Flexographic, gravure
Temperature Range	-20°F (-20°C) to 250°F (121°C)
Minimum Application Temperature	5°F (-15°C)
Die-Cutting	Rotary or flatbed
Dispensing	Suitable for manual application

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Adhesion

Note: Peel test procedure is ASTM D-3330

	Initial (10 Minute Dwell/RT)		Conditioned for 3 Days at 120°F (49°C)*	
	180° Peel		180° Peel	
Surface	oz/in	N/100 mm	oz/in	N/100 mm
Stainless Steel	3.0	3.3	8.0	8.8
Bond Paper	2.0	2.2	2.0	2.2
Kraft Paper	1.0	1.1	1.0	1.1
Corrugated Board	1.0	1.1	1.0	1.1
Painted Metal	3.0	3.3	3.0	3.3
Glass	3.0	3.3	2.0	2.2
Polypropylene	3.0	3.3	2.5	2.7
Acrylic	5.0	5.5	3.0	3.3
Cellophane	2.5	2.7	2.0	2.2

*Adhesive shadow may occur

Liner Release

Note: Average 180° removal from facestock

90"/minute grams/1" width	300"/minute grams/1" width
20-50	70-150

Environmental Performance

Samples were applied to stainless steel panels and allowed to dwell for 24 hours prior to exposures.

Temperature Resistance

175°F (79°C) for 1 day:

Adhesive transfer may occur

-40°F (-40°C) to 200°F (93°C) for 1 day:

No change

Application Ideas

- These label materials can be used for point-of-purchase advertising labels and information labels for consumer appliances or electronics.
- Designed for removal or repositionable labels that require variable information via thermal transfer printing such as auto window stickers with computer-generated information auto options, costs and pricing.

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Application Techniques

- Not recommended for use on clay-coated papers or vinyl surfaces.
- Should be thoroughly evaluated for applications that utilize automatic hand-held applicators.
- Label size should be larger than 1" x 1" (2.54 cm x 2.54 cm).
- Silicone overspray/contamination of the substrate may cause poor adhesion.
- Packaging converted stock in low-density polyethylene (2-4 mils) can help prevent humidity penetration and stabilize the moisture content in the paper liners.
- Lower processing speeds may improve matrix removal – high nip or windup pressures can create a temporary or permanent increase in adhesion level.

Note: 3M™ Repositionable Paper Label Materials have a very low adhesion value on kraft paper and corrugated board.

Storage

Store at room temperature conditions of 72°F (22°C) and 50% relative humidity.

Shelf Life

If stored under proper conditions, product retains its performance and properties for two years from date of manufacture.

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ISO 9001

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Industrial Adhesives and Tapes Division
Converter Markets
3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550
www.3M.com/converter

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