



HP Indigo Optimized Polyester Label Products

7225 • 7238 • 7244 • 7250

Technical Data

October, 2007

Product Description

3M™ HP Indigo Optimized Polyester Label Products are durable, high performance materials that offer excellent thermal stability and moisture resistance. These polyester labels utilize 3M™ Adhesive P1400, which is a high performance tackified acrylic designed for use in demanding environments. These products are optimized for use in the HP Indigo printing press. All products are pattern coated with a dry edge (no adhesive) to minimize adhesive ooze and press clean-up.

Construction

Product Number	Facestock	Adhesive	Liner
3M™ HP Indigo Optimized Polyester Label Product 7225	.002 in. White Digital TC Polyester	P1400 Perm. 0.9 mils PAT	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
3M™ HP Indigo Optimized Polyester Label Product 7238	.002 in. Matte Silver Digital TC Polyester	P1400 Perm. 0.9 mils PAT	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
3M™ HP Indigo Optimized Polyester Label Product 7244	.002 in. Clear Digital TC Polyester	P1400 Perm. 0.9 mils PAT	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
3M™ HP Indigo Optimized Polyester Label Product 7250	.002 in. Brite Silver Digital TC Polyester	P1400 Perm. 0.9 mils PAT	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet

(Calipers are nominal values)

Features

- Adhesive dry ingredients are listed by FDA as indirect food contact additives when used in food packaging with minimum opportunity for exposure. See 21 CFR 175.105.
- Rolls are pattern coated with a dry adhesive edge to minimize ooze and reduce adhesive buildup on rollers.
- Adhesive offers good UV resistance and excellent adhesion to a wide variety of substrates, including polyolefins.
- Liner for 3M™ HP Indigo Optimized Polyester Label Products is designed for high-speed die cutting and matrix stripping.

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Typical Physical Properties

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

Adhesion properties determined per TLMI Method using 1.0 mil polyester with 1.0 mil of adhesive on a polished stainless steel panel.

Peel Adhesion	2.2 lbs./in. (528 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample
Loop Tack	1.8 lbs./in. (316 N/m)	TLMI Method, 12"/min., 1" wide sample
Shear	4 hours	TLMI Method, 0.25 in ² x 500g
Adhesive Coat Weight	1.75 g/100 in ² ± 10%	3M Method E10MFP01
Release Range	15 to 50 g/2 in.	TLMI Method, 180° removal, 300 in./min.
Service Temperature	-20°F to 302°F (-29°C to 150°C)	
Application Temperature	40°F to 120°F (5°C to 49°C)	
Minimum Application Temperature	10°F (-12°C)	
Convertability	3M™ Outdoor Acrylic Adhesive P1400 is specifically designed to be compatible with a variety of print methods and end use applications. Adhesive processing issues are not anticipated when proper roll tensions, handling and storage conditions are used. Please refer to the die cutting/converting section of this data page or the "Guide to Converting and Handling Label Products" technical bulletin for additional information.	

Application Techniques

- Nameplates and product ID labels.
- Durable goods, power tools, equipment and machinery, lawn and garden.

Printing

- High performance digital topcoat is designed for superior ink adhesion and image transfer in HP Indigo digital processes. Digital coating yields high definition color and features an extended shelf life.

Storage Conditions

Store under normal conditions of 70°F (21°C) and 50% relative humidity. To minimize the effects of humidity on the products, package the die-cut and printed stock in polyethylene bags. Low density polyethylene (2-4 mils) can help prevent humidity penetration.

Shelf Life

To obtain best performance, use this product within one year from the date of manufacture.

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Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Warranty and Limited Remedy

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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



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10% post-consumer

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