



Flame Retardant Label Materials

7203 • 7204

Technical Data

January, 2008

Product Description

3M™ Flame Retardant Label Materials 7203 and 7204 are designed to meet FR requirements including UL-94-VTM-0. The polyester facestocks offer excellent electrical insulating performance for use in electronic applications where flame resistance is required. These materials utilize 3M™ Adhesive P2000FR which is formulated to impart flame retardant characteristics to the label construction.

Construction

Product Number	Facestock	Adhesive	Liner
3M label material 7203	.002 in. White FR Polyester TC	P2000FR	50# SC 3.1 mil semi-bleached super calendered kraft sheet
3M label material 7204	.002 in. Matte White FR Polyester TC	P2000FR	50# SC 3.1 mil semi-bleached super calendered kraft sheet

(Calipers are nominal values)

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	2.5 lbs./in. (435 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample
Loop Tack	1.0 lbs./in. (175 N/m)	TLMI Method, 12"/min., 1" wide sample
Shear	2 hours	TLMI Method, 0.25 in ² x 500g
Adhesive Coat Weight	1.9 g/100 in ² ± 10%	3M Method E10MFP01
Release Range	20 to 80 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)	

Features

- Polyester facestock offers high dielectric strength and long term thermal durability.
- Meets UL-94-VTM-0 flame retardant performance per UL File E213134 (Insulating Devices and Materials, miscellaneous - Component). Approvals for UL - 969 - Pending.
- Adhesive is a tackified acrylic suitable for use on a wide range of substrates including high and low surface energy plastics.
- Liner is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.

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Printing	<ul style="list-style-type: none">• 3M™ Flame Retardant Label Material 7203 – Flexographic and thermal transfer.• 3M™ Flame Retardant Label Material 7204 – Flexographic, thermal transfer, dot matrix imprintable.
Application Ideas	<ul style="list-style-type: none">• Electronic insulator label applications.• Battery labels.• Computer peripherals.• Label applications requiring flame retardant performance.
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 two years from the date of manufacture.
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.
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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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Printed in U.S.A.
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