



White Polyester Label Products

FM53R2 • FM532 • FM782

Technical Data

January, 2007

Product Description

3M™ White Polyester Label Products FM53R2, FM532 and FM782 are durable, high performance materials that utilize 3M™ Adhesive P1110, which is for labeling tires when used with tire wash. This adhesive exhibits high initial tack, yet resists edge bleed and cold flow.

Construction

Product Number	Facestock	Adhesive	Liner
3M label product FM53R2	.002 in. White Polyester TC	P1110 Perm. 26	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
3M label product FM532	.002 in. White Polyester TC	P1110 Perm. 26	50# SC 3.1 mil semi-bleached super calendered kraft sheet
3M label product FM782	.001 in. White Polyester TC	P1110 Perm. 26	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 1.1 mil of adhesive on a polished stainless steel panel.

Peel Adhesion	4.0 lbs./in. (704 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample
Loop Tack	4.0 lbs./in. (704 N/m)	TLMI Method, 12"/min., 1" wide sample
Shear	5 hours	TLMI Method, 1 in. ² x 1000g
Adhesive Coat Weight	2.5 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	40°F to 140°F (5°C to 60°C)	
Application Temperature	55°F to 120°F (13°C to 49°C)	

Features

- Meets CONEG requirements.
- 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.
- Liner for 3M label product FM53R2 is designed for high-speed die cutting and matrix stripping. This liner has been remoisturized after silicone coating to restabilize the sheet and reduce side curl, an excellent choice for perforation and fanfold applications.
- Liner for 3M label products FM532 and FM782 is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.

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Printing

- Gloss topcoat is designed to be printable with a variety of film inks and thermal transfer ribbons. The following inks and thermal transfer ribbons have been evaluated and found to give excellent adhesion when tested with 3M™ Tape 610 and 3M™ Tape 810. However, press conditions vary and proper evaluation using your specific conditions is critical and highly recommended for successful ink and ribbon adhesion.

Supplier UV Inks	Ink Series	Printing Process
XSYS Print Solutions	UNV80071	Letterpress
	USC50022	Screen
	USC10031	Screen
Environmental Inks	Ultra Kote 1800 OPV	Flexo
	Nazdar PSST-3952	Screen
	Norcote 02-022, 80049, 02304, 021019	Screen
Water Based		
XSYS Print Solutions	HMF80071	Flexo
	HMF90100	Flexo
	MHF30004	Flexo
Water Ink Technologies	WFLO 42976	Flexo
	Environmental Inks Aqua Polyscreen Plus	Flexo
Environmental Inks	Aqua Poly Cup	Flexo
	Wykoff Inks SCF 6551	Flexo
Solvent Based		
Siegwerk Ink	FCTB65L2	Flexo
	FCTD65L4	Flexo
	FCTE65L3	Flexo
	FCTH65L5	Gravure
	Nazdar GV124	Screen
Thermal Transfer		
Ribbon Supplier	Ribbon Series	Ribbon Type
Armor	AXR7 +	Resin
	DNP W137-C	Wax
iimak	M-250	Wax/Resin
	R510-W	Resin
	SP330, DC400	Resin
Ricoh	Prime Mark, PM350	Wax/Resin
	B110A	Wax/Resin
Sony	BC110C	Resin
	3022, 4085 Plus	Wax
	4070	Resin (UV+)
	4075	Resin

Application Ideas

- Durable goods, product ID.

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



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