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<u>3M</u> <u>1X6-FMV02</u>

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



### **3M Void Polyester Label Products** FMV02 • FMV12 • FMV22 • FMV32 • FMV0E

Product Description	a "void" message in t labels utilize 3M <sup>™</sup> A	the facestock when rem	oval is attempts an aggressiv	g stocks designed to provide oted. These void polyester ve tackified emulsion acrylic f substrates, including
Construction	Product	Facestock	Adhesive	Liner
	3M™ Void Polyester Label Product FMV02	.002 in. Silver Void Polyester TC	P1410 Perm. 18	50# SC 3.1 mil semi-bleached super calendered kraft sheet
	3M™ Void Polyester Label Product FMV12	.002 in. White Void Polyester EDP	P1410 Perm. 18	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
		.002 in. White Void Polyester TC	P1410 Perm. 18	50# SC 3.1 mil semi-bleached super calendered kraft sheet
		.002 in. Silver Void Polyester Translucent EDP	P1410 Perm. 18	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
		.002 in. Silver Void Polyester TC	P1410 Perm. 18	50# SC C2S 3.1 mil semi-bleached super calendered kraft sheet
Typical Physical Properties	or typical only	and should not be used f letermined per TLMI M	for specificatio	<b>be considered representative</b> on purposes. .0 mil polyester with 0.9 mils
	Peel Adhesion	3.0 lbs./in. (528 N/m	) TLMI Method	, 180° Peel, 12"/min., 1" wide sample
	Loop Tack	1.8 lbs./in. (316 N/m	) TLMI M	ethod, 12"/min., 1" wide sample
	Shear	1.0 hour	TLI	VI Method, 0.25 in <sup>2</sup> x 500g
	Adhesive Coat Weigh	t 1.75 g/100 in. <sup>2</sup> ± 10%	6	3M Method E10MFP01
	Liner Release	15 to 50 g/2 in.	TLMI Me	thod, 180° removal, 300 in./min.
	Application Temperat	ure	40°F to 120°F (5°C to 49°C)	
	Service Temperature	-2	-20°F to 240°F (-29°C to 115°C)	
	Oct vice Temperature	£		



# $\begin{array}{l} \textbf{3M}^{\text{\tiny TM}} \ \textbf{Void Polyester Label Products} \\ \text{FMV02} \bullet \text{FMV12} \bullet \text{FMV22} \bullet \text{FMV32} \bullet \text{FMV0E} \end{array}$

Features	<ul> <li>The polyester film is top coated to accept most film ink systems and thermal transfer printing</li> <li>Meets CONEG requirements.</li> <li>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.</li> </ul>					
						• Liner is designed for high-speed die-cutting and matrix stripping. Not recommended for she on press applications. The C2S version has a light coating of silicone on the backside to reduce label pick and is effective when used in conjunction with soft adhesives and heavy adhesive coating weights. The remoist version has been remoisturized after silicone coating restabilize the sheet and reduce side curl.
	Printing	<ul> <li>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<sup>TM</sup> Tape 610 and 3M<sup>TM</sup> Tape 810. However, press conditions vary and proper evaluation using your specific conditions is critical and highly recommended for successful ink and ribbon adhesion.</li> </ul>				
	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			
	AS IS I mit Solutions	HMF90100	Flexo			
		MHF30004	Flexo			
	Water Ink Technologies	WFLO 42976	Flexo			
	Environmental Inks	Aqua Polyscreen Plus	Flexo			
		Aqua Poly Cup	Flexo			
	Wykoff Inks	SCF 6551	Flexo			
	Solvent Based					
		ECTD 651 2	Flore			
	Siegwerk Ink	FCTB65L2 FCTD65L4	Flexo Flexo			
		FCTE65L3	Flexo			
		FCTH65L5	Gravure			
	Nazdar	GV124	Screen			
	Thermal Transfer	0,121	Sereen			
	Ribbon Supplier	Ribbon Series	<b>Ribbon Type</b>			
	Armor	AXR7 +	Resin			
	DNP	W137-C	Wax			
		M-250	Wax Wax/Resin			
		R510-W	Resin			
	iimak	SP330, DC400	Resin			
		Prime Mark, PM350	Wax/Resin			
	Ricoh	B110A	Wax/Resin			
		BC110C	Resin			
	Sony	3022, 4085 Plus	Wax			
	~,	4070	Resin (UV+)			



#### **3M<sup>™</sup> Void Polyester Label Products** FMV02 • FMV12 • FMV22 • FMV32 • FMV0E

Application Ideas	<ul><li>Tamper-indicating labels and seals for packaging applications.</li><li>Non-transferable durable goods label.</li></ul>			
<b>Die-Cutting</b>	The compact "void" message permits manufacture of labels as small as $1/2$ in. x $11/4$ in. (13 mm x 32 mm). It is recommended that the user test for the presence of the "void" message on every roll of label seals as they process them, to insure the product quality and consistency. Which can be done by laminating a label seal to an untreated polyester film test surface. The label seal should be wiped down with a squeegee, allowed to dwell 10 minutes, and then removed to observe the presence and functions of the "void" message on both the facestock and the substrate. It is also recommended that the user test each lot of label seals on the actual application surface to assure the function of the "void" message.			
Dispensing	As care should be taken not to disturb the tamper-indicating feature by pre-destructing the "void" message when manually removing the label from the liner, slowly remove the liner from the label at a $90^{\circ}$ angle. It is recommended that the user test samples for each roll of label seals by laminating a representative label seal to the specific application surface to assure its function meets expectations. This test can be run after 10 minutes dwell; however, final judgement should be based on 72 hours dwell at room temperature prior to testing.			
Application	The tamper-indicating mechanism (i.e. the "void" message both on the facestock and on the substrate) depends upon adequate adhesion of the label to the substrate. A sufficient bond may not develop on all surfaces due to low surface energy (e.g. PTFE) contaminated or textured surfaces. Therefore, it is important to determine the suitability of the product in the intended application by carefully pretesting. The primary function of the products is to effect a non-transferable (non-reusable) label seal by causing the "void" message to appear on the facestock when removal from the substrate is attempted. As a result of the primary function, a "void" message is also transferred to the substrate and can be removed by hand rubbing or by solvent wiping. Our tamper-indicating product line is designed to indicate tampering by destructing when an attempt is made to remove the label. Since no tamper-indicating feature is 100% tamper proof, careful consideration must be taken when designing label seals. When the consequences of tampering could be severe, such as injury or loss of human life or significant monetary loss, these products are not recommended as the sole means of package or product tamper indication. In these instances, additional methods in combination with the labels should be considered so that the tamper-indicating features are commensurate with the requirements of the application.			



## $3M^{\text{TM}} Void Polyester Label Products FMV02 • FMV12 • FMV22 • FMV32 • FMV0E$

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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