

# Security / Authenticity Labeling

White Polyester - Void Pattern

*For Tamper-Evident Labeling including: Consumer Electronics or anywhere tamper evidence may be required.*

*Flexcon makes a variety of destructible and selectively destructible films for covert security applications.*

*For more information on FLEXcon's pressure-sensitive film solutions for security / authenticity labeling, contact your local Sales Representative or our Product Identification Business Team at (508) 885-8300.*

*Product ID #: FLX000446*



Product:

Flexcon®  
TamperMark™ PM 200 White Void II  
TC-249 V-344 Spec 50K/Q-8

Benefits:

- 2.0 mil tamper-evident white polyester film leaves behind "VOID" pattern
- Topcoat optimizes ink receptivity with most solvent and UV ink systems (please test for ink adhesion on your specific ink chemistry)
- Permanent pressure-sensitive acrylic adhesive bonds well to a wide variety of surfaces including metal, low- and high- surface energy plastic, powder coated paint, paint, and polycarbonate
- Backed with a 50 lb. semi-bleached kraft release liner that is Quilon®\* coated to prevent label pick-off
- Ideal for roll to roll converting

\*Quilon® is a registered trademark of Zaclon, LLC

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PRODUCT DATA	VALUE	TEST METHOD	
<b>Physical Properties</b>			
Thickness (Mils[microns])	Film	2.3 (58) +/- 10%	
	Adhesive	1.0-1.1 (25-28) +/- 0.1 (3)	
	Liner	3.1 (79) +/- 10%	
Dimensional Stability (%)	No Shrinkage Observed	Applied Shrinkage: 24 hour dwell time on aluminum panel then 24 hours at 160°F (71°C)	
<b>Adhesion Properties</b>			
Ultimate Peel from	Average	ASTM D 903 (Modified for 72 hour dwell time)	
	Oz/ln (N/m)		
Acrylic	58+ (638+) (leaves VOID pattern)		
Acrylic Powder Paint	44+ (484+) (leaves VOID pattern)		
Aluminum	50+ (550+) (leaves VOID pattern)		
Cardboard Box	12+ (132+) (cardboard surface splits)		
Epoxy Powder Paint	55+ (605+) (leaves VOID pattern)		
Glass	53+ (583+) (leaves VOID pattern)		
HDPE	45+ (495+) (leaves VOID pattern)		
Painted Metal	42+ (462+) (leaves VOID pattern)		
Polycarbonate	53+ (583+) (leaves VOID pattern)		
Polyester	45+ (495+) (leaves VOID pattern)		
Polyurethane Powder Paint	49+ (538+) (leaves VOID pattern)		
Stainless Steel	49+ (538+) (leaves VOID pattern)		
Expected Shear			ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
Room Temp (hours)	30		
Tack (gm/sq cm)	880	ASTM D 2979	
Expected Exterior Life	Film: Two years White Coating: Turns yellow under sunlight		
Service Temperature Range	-40°F to 302°F (-40°C to 150°C) Tamper-evident maximum 104°F (40°F)		
Minimum Application Temperature	50°F (10°C); 35°F (2°C) minimum application temperature for pharmaceutical labeling on glass and HDPE		
Storage Stability	Two years stored at 70°F (21°C) and 50% RH		

**Product Performance and Suitability**

All of the descriptive information, the typical performance data, and recommendations for the use of Flexcon products shall be used only as a guide and do not reflect the specification or specification range for any particular property of the product. Furnishing such information is merely an attempt to assist you after you have indicated your contemplated use and shall in no event constitute a warranty of any kind by Flexcon. All purchasers of Flexcon products shall be responsible for independently determining the suitability of the material for the purpose for which it is purchased. No distributor, salesman, or representative of Flexcon is authorized to give any warranty, guaranty, or make any representation in addition or contrary to the above.

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