

# Tamper-Evident for Security and Counterfeit Protection

Silver Polyester - Checkerboard Pattern

*End Use Applications:  
Functional Technology for Pill  
Containers and Boxes*

*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 #: FLX069053*



Product:

**Flexcon®  
PharmCal® TamperMark™ 069053  
(PharmCal® MM 150 Silver  
Checkerboard TC-716 V-156  
Spec 50K/Q-8)**

Benefits:

- 1.5 mil tamper-evident silver polyester film leaves behind checkerboard pattern
- Topcoat optimizes printability with resin and wax/resin thermal transfer, UV & solvent screen, flexographic, narrow-format UV inkjet, and hot stamping
- High-adhesive bond onto plastic containers, cardboard, and packaging materials
- Backed with a 50 lb. semi-bleached kraft release liner that is Quilon®\* coated to prevent label pick-off
- Ideal for roll-form converting
- Liner is suitable for optical sensing on most thermal transfer printers
- Ideal for FDA 21CFR 211.132 and EU Falsified Medicines Directive (FMD) regulations for tamper-proof labeling and packaging
- 6-month change notification

“Fit-for-use” testing is recommended under actual application conditions.

\*Quilon® is a registered trademark of Zaclon LLC



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**Flexcon®**  
**PharmCal® TamperMark™ 069053**  
**(PharmCal® MM 150 Silver Checkerboard TC-716 V-156**  
**Spec 50K/Q-8)**

PRODUCT DATA	VALUE	TEST METHOD
<b>Physical Properties</b>		
Thickness (Mils[microns])	Film	1.4 (36) +/- 10%
	Adhesive	1.0-1.1 (25-28) +/- 0.1 (3)
	Liner	3.1 (79) +/- 10%
Dimensional Stability (%)	No Shrinkage Observed	ASTM D 3652 (Modified for use with non-tape products)
<b>Adhesion Properties</b>		
Ultimate Peel from	Average	ASTM D 903 (Modified for 72 hour dwell time)
	Oz/In (N/m)	
Acrylic	See footnote*	See footnote*
Glass	See footnote*	See footnote*
Stainless Steel	See footnote*	See footnote*
Expected Shear		ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
Room Temp (hours)	5	
Tack (gm/sq cm)	820	ASTM D 2979
Expected Exterior Life	Two years	
Service Temperature Range	-40°F to 302°F (-40°C to 150°C)	
	Tamper-evident maximum 104°F (40°C)	
Minimum Application Temperature	32°F (0°C)	
Storage Stability	Two years when stored at 70°F (21°C) and 50% relative humidity	

\*Product shows tampering when removal is attempted leaving a "checkerboard" pattern on the application surface

**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.

Last Modified On: 02/19/2024

