

# High-Performance Material for Vials, Syringes, and Ampules

2.3 Mil White Polypropylene

*End Use Applications:  
Track & Trace for Vials,  
Syringes, and Ampules*

*Suitable for autoclave, ethylene  
oxide, gamma and electron  
beam sterilization methods.*

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

*Product ID #: FLX011974*



**Product:**

**Flexcon®  
PharmCal® Supreme 011974  
(PharmCal® PP 230 H White  
TC-332™ V-344 TracRite™150)**

**Benefits:**

- 2.3 mil hard white polypropylene offers excellent resistance to shrinkage, high temperatures, moisture, humidity and product contents
- Topcoat optimizes printability via narrow-format UV inkjet, flexographic, UV screen, UV letterpress, UV offset, thermal transfer, and hot stamping
- Permanent aggressive adhesive provides a high ultimate bond and excellent clarity
- High-adhesive performance bonds to tight-radius glass or plastic containers
- Adhesive offers excellent tack, clarity and wet out characteristics
- Backed with Flexcon® TracRite™ 150 polyester release liner for excellent on-press performance for tight registration graphics
- 21 CFR 175.105; ISO 10993-5, -10 Compliant\*
- 12-month change notification

\*FDA CFR 175.105: Adhesives may be safely used as components of articles intended for use in packaging, transporting, or holding food in accordance with the following prescribed conditions. ISO 10993 Biological evaluation of medical devices: Part 5: Tests for in vitro cytotoxicity; Part 10: Tests for irritation and skin sensitization.

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

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PRODUCT DATA	VALUE	TEST METHOD
<b>Physical Properties</b>		
Thickness (Mils[microns])	Film	2.3 (58) +/- 10%
	Adhesive	0.7-0.8 (18-20) +/- 0.1 (3)
	Liner	1.4 (36) +/- 5%
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/In (N/m)	
Glass	59 (649)	
Polypropylene	18 (198)	
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)	1090	ASTM D 2979
Expected Exterior Life	Indoor use only	
Service Temperature Range	-40°F to 212°F (-40°C to 100°C)	
Minimum Application Temperature	50°F (10°C)	
Storage Stability	Two years when stored at 70°F (21°C) and 50% relative humidity	

**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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