

Engineered Materials for Extreme Storage Conditions

Gloss Topcoated White Polypropylene

Specifically designed to function in temperatures for cryogenic specimen storage and testing applications: -112°F (-80°C) to 212°F (100°C), and survives dry ice conditions.

*End Use Applications:
Cryogenic Specimen Labels*

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

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

Product ID #: FLX000302



Product:

**Flexcon®
PharmCal® CryoFlex™ 000302
(CryoFlex™ PPW)**

Benefits:

- 2.3 mil gloss topcoated white polypropylene
- Ideal for cryogenic specimen storage and testing applications: -112°F (-80°C) to 212°F (100°C)
- Survives dry ice storage and transportation conditions
- Topcoat optimizes printability via narrow-format UV inkjet, flexographic, UV screen, UV letterpress, UV offset, thermal transfer, and hot stamping
- High-performance permanent acrylic adhesive provides a good bond to low- and high-surface energy plastics, and glass for reliable performance in extreme cold temperatures
- Backed with a 50 lb. bleached kraft release liner ideal for roll-form converting
- Liner is suitable for optical sensing on most thermal transfer printers
- 6-month change notification

Recommendations:

Since laboratory storage/test conditions and procedures can vary significantly, be sure to thoroughly test the labels in the intended process/application environment. To achieve ultimate adhesion in cryogenic conditions, labels should be applied at room temperature.

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

Flexcon®
PharmCal® CryoFlex™ 000302 (CryoFlex™ PPW)

PRODUCT DATA	VALUE	TEST METHOD		
Physical Properties				
Thickness (Mils[microns])	Film	2.3 (58) +/- 10%		
	Adhesive	0.6-0.7 (15-18) +/- 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)		
Adhesion Properties				
Ultimate Peel from	Average	ASTM D 903 (Modified for 72 hour dwell time)		
	Oz/In		(N/m)	
	Acrylic		50	(550)
	Glass		45	(495)
	HDPE		8	(88)
	Polyester		40	(440)
	Polypropylene		6	(66)
Expected Shear		ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load		
Room Temp (hours)	25			
Tack (gm/sq cm)	760	ASTM D 2979		
Expected Exterior Life	Indoor use only			
Service Temperature Range	-112°F to 212°F (-80°C to 100°C)			
Minimum Application Temperature	35°F (2°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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