

Engineered Materials for Extreme Storage Conditions

Gloss Topcoated Clear 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 #: FLX000301



Product:

**Flexcon®
PharmCal® CryoFlex™ 000301
(CryoFlex™ PPC)**

Benefits:

- 2.0 mil gloss topcoated clear 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™ 000301 (CryoFlex™ PPC)

PRODUCT DATA	VALUE	TEST METHOD
Physical Properties		
Thickness (Mils[microns])	Film	2.0 (51) +/-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)	
ABS	27 (297)	
Acrylic	44 (484)	
Glass	39 (429)	
HDPE	12 (132)	
Polycarbonate	42 (462)	
Polyester	43 (473)	
Polypropylene	6 (66)	
Styrene	32 (352)	
Expected Shear		ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
Room Temp (hours)	100	
Tack (gm/sq cm)	640	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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