

# Ethical and Cryogenic Labeling

Gloss Topcoated White Polypropylene

**Specifically Designed to Function in Temperatures from -112°F (-80°C) to 176°F (80°C)**

**End Use Applications:**  
Cryogenic Specimen Labels  
Vial Labels

*Suitable for autoclave, ethylene oxide, gamma and electron beam*

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

Product ID #: FLX000302



**Product:**

**FLEXcon® CryoFLEX™ PPW**

**Benefits:**

- 2.3 mil gloss topcoated white polypropylene
- Ideal for cryogenic specimen storage and testing applications: -112°F (-80°C)
- Topcoat resists smudging and abrasion when printed with resin and wax/resin thermal transfer ribbons (we recommend evaluating the intended ribbon and ink system for compatibility with the product under the application conditions)
- 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

**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.



# FLEXcon® CryoFLEX™ PPW

PRODUCT DATA	VALUE	TEST METHOD		
<b>Physical Properties</b>				
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)		
<b>Adhesion Properties</b>				
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)
<b>Expected Shear</b>		ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load		
Room Temp (hours)	25			
<b>Tack (gm/sq cm)</b>	760	ASTM D 2979		
<b>Expected Exterior Life</b>	Indoor use only			
<b>Service Temperature Range</b>	-112°F to 212°F (-80°C to 100°C)			
<b>Minimum Application Temperature</b>	35°F (2°C)			
<b>Storage Stability</b>	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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