Engineered Materials for Extreme Storage Conditions

White Matte Polyethylene

Specifically designed to function in temperatures from -112°F (-80°C) to 176°F (80°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 #: FLX000300

Product:

Flexcon® PharmCal® CryoFlex™ 000300 (CryoFlex™ PEWM)

Benefits:

- 3.5 mil white matte polyethylene is ideal for cryogenic specimen storage and testing applications: -112°F (-80°C) to 176°F (80°C)
- Survives dry ice storage and transportation conditions
- Print-receptive film accepts UV and flexographic inks, and thermal transfer
- 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 1 FLEXcon Industrial Park, Spencer, MA 01562-2642, Telephone (508) 885-8300 FAX (508) 885-8301 www.FLEXcon.com

Flexcon®
PharmCal® CryoFlex™ 000300 (CryoFlex™ PEWM)

PRODUCT DATA	VALUE		TEST METHOD
Physical Properties			
Thickness (Mils[microns])	Film	3.5 (89) +/- 10%	ASTM D 3652 (Modified for use with non-tape products)
	Adhesive	0.6-0.7 (15-18) +/- 0.1 (3)	
	Liner	3.1 (79) +/- 10%	
Dimensional Stability (%)	MD	0.50	Applied Shrinkage: 24 hour dwell time on aluminum panel then 24 hours at 160°F (71°C)
	TD	0.50	
Adhesion Properties			
Ultimate Peel from	Average		ASTM D 903 (Modified for 72 hour dwell time)
	Oz/In	(N/m)	
ABS	61	(671)	
Acrylic	69	(759)	
Glass	61	(671)	
HDPE	26	(286)	
Polycarbonate	63	(693)	
Polyester	68	(748)	
Polypropylene	21	(231)	
Styrene	59	(649)	
Expected Shear			ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
Room Temp (hours)	20		
Tack (gm/sq cm)	660		ASTM D 2979
Expected Exterior Life	Indoor use only		
Service Temperature Range	-112°F (-80°C) to 176°F (80°C)		
Minimum Application Temperature	35°F (2°C)		
Storage Stability	Two years when stored at 70°F (21°C) and 50% relative humidity		

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