



Flexcon® PharmCal® CryoFLEX™ 000300 (CryoFLEX™ PEWM)
3.5 mil white matte polyethylene film for cryogenic labeling.
FLX000300

Benefits

- Product survives dry ice storage and transportation conditions
- 6-month change notification

Features

- 3.5 mil white matte polyethylene is ideal for cryogenic specimen storage and testing applications: -112°F to 212°F (-80°C to 100°C) on PP vials; -320.8°F to 212°F (-196°C to 100°C) on EVA bags and paper boxes
- 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

Additional Details

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.

Technical Data

Physical Properties

Thickness (Mils [microns])	Mils	Microns
Total Product	7.49	
Film	3.5 +/- 10%	89
Adhesive	0.6-0.7 +/- 0.1	15-18 +/- 3
Liner	3.1 +/- 10%	79

Test Method: ASTM D 3652 (Modified for use with non-tape products)



Adhesion Properties

Ultimate Peel from	Average Oz/In	(N/m)
ABS	61	671
Acrylic	69	759
Glass	61	671
HDPE	26	286
Polycarbonate	63	693

Test Method: ASTM D 903 (Modified for 72 hour dwell time)

Additional Properties	Value	Test Method
Expected Shear (hours)	20	ASTM D 3654 Method A (1 hr. dwell, 1 sq. in, 4 lb. load)
Tack (g)	660	ASTM D 2979
Expected Exterior Life	Indoor use only	
Additional Information		
Service Temperature	-320.8°F to 212°F (-196°C to 100°C) on aluminum panels/cassettes, EVA Bags, and paper boxes	
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

Descriptive information, performance data, and recommendations for Flexcon products are guides and not specifications. Providing this information is to assist you and does not constitute a warranty of any kind by Flexcon.

Purchasers must independently determine the material's suitability for their intended use. No distributor, salesman, or representative of Flexcon is authorized to provide any warranty or guarantee beyond what is stated. FLEXCON MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, OR TRADE USAGE.