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

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