Flexcon® PharmCal® CryoFLEX™ 000301 (CryoFLEX™ PPC)

Engineered Materials for Extreme Storage Conditions

FLX000301

Benefits

- 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 aluminum panels/cassettes, EVA bags, and paper boxes
- Survives dry ice storage and transportation conditions

Features

- 2.0 mil gloss topcoated clear polypropylene
- 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

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	6.15	
Film	2.0 +/-10%	51
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	27	297
Acrylic	44	484
Glass	39	429
HDPE	12	132
Polycarbonate	42	462

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

Additional Properties	Value	Test Method
Expected Shear (hours)	100	ASTM D 3654 Method A (1 hr. dwell, 1 sq. in, 4 lb. load)
Tack (g)	640	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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