



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)



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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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