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

PRODUCT DATA	VALUE		TEST METHOD	
Physical Properties				
Thickness (Mils[microns])	Film Adhesive Liner	3.5 (89) +/- 10% 0.6-0.7 (15-18) +/- 0.1 (3) 3.1 (79) +/- 10%	ASTM D 3652 (Modified for use with non-tape products)	
Dimensional Stability (%)	MD TD	0.50 0.50	Applied Shrinkage: 24 hour dwell time on aluminum panel then 24 hours at 160°F (71°C)	
Adhesion Properties				
Ultimate Peel from	Average Oz/In	(N/m)	ASTM D 903 (Modified for 72 hour dwell time)	
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

Product Performance and Suitability

All of the descriptive information, the typical performance data, and recommendations for the use of FLEXcon products shall be used only as a guide and do not reflect the specification or specification range for any particular property of the product. Furnishing such information is merely an attempt to assist you after you have indicated your contemplated use and shall in no event constitute a warranty of any kind by FLEXcon. All purchasers of FLEXcon products shall be responsible for independently determining the suitability of the material for the purpose for which it is purchased. No distributor, salesman, or representative of FLEXcon is authorized to give any warranty, guaranty, or make any representation in addition or contrary to the above. Last Modified On: 02/12/2024

