



Benefits

- Ideal for cryogenic specimen storage and testing applications: -112°F (-80°C) to 212°F (100°C)
- Survives dry ice storage and transportation conditions
- 6-month change notification

Features

- 2.3 mil gloss topcoated white polypropylene
- Topcoat optimizes printability via narrow-format UV inkjet, flexographic, UV screen, UV letterpress, UV offset, 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

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 | 6.47 | |
| Film | 2.3 +/- 10% | 58 |
| 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) |
|--------------------|---------------|-------|
| Acrylic | 50 | 550 |
| Glass | 45 | 495 |
| HDPE | 8 | 88 |
| Polyester | 40 | 440 |
| Polypropylene | 6 | 66 |

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

| Additional Properties | Value | Test Method |
|---------------------------------|--|--|
| Expected Shear (hours) | 25 | ASTM D 3654 Method A (1 hr. dwell, 1 sq. in, 4 lb. load) |
| Tack (g) | 760 | ASTM D 2979 |
| Expected Exterior Life | Indoor use only | |
| Additional Information | | |
| Service Temperature | -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 and EVA Bags | |
| 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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