



Melinex™ Insulation – MEL051AFR (Single Sided) Acrylic Flame Retardant – MEL151AFR (Double Sided)

A flexible composite insulation composed of 5 mil type 339 DuPont Melinex™ with an acrylic thermosetting adhesive on one or both sides. The acrylic adhesive is b-staged and can bond with heat and pressure to many substrates. Melinex™ is a translucent white glossy film with similar properties to DuPont Mylar™.

PRODUCT ATTRIBUTES

- Excellent thermal stability, electrical properties, and chemical resistance
- High continuous temperature resistance
- Very thin profile
- RoHS compliant

| REPRESENTATIVE PHYSICAL PROPERTIES | | |
|--|----------------------|--------------|
| PROPERTY | VALUE | TEST METHOD |
| NOMINAL THICKNESS, inches | 0.006 - 0.007 | ASTM D374 |
| YIELD Square yards per pound Pounds per square yard | 2.336 0.428 | |
| DIELECTRIC STRENGTH , Volts (2-inch diameter electrodes) | 13,500 | ASTM D149 |
| TENSILE STRENGTH Machine Direction (MD) Cross Machine Direction (XMD) | 86 lbf 110 lbf | ASTM D882A |
| PEEL ADHESION (copper), lbf: 90° Peel (German Wheel) | 6.5 | |
| DIELECTRIC CONSTANT , (23°C, 50% RH, 100 Hz) | 2.6 | ASTM D150-81 |
| LAMINATION PARAMETERS Temperature, °F Time, minutes Pressure, psi | 310 30 25 - 75 | |
| CONTINUOUS USE TEMPERATURE, °C | 105 | |

This product complies with RoHS (Restriction of Hazardous Substances) Directive, citation 2002/95/EC. Alamotape® does not manufacture this material using any of the banned substances listed in the directive guidelines as of July 1, 2008.

STORAGE

- Shelf life: one (1) year from date of shipment.
- Store in a clean area free from exposure to excessive heat, moisture, or direct sunlight (50°F to 80°F).



Alamotape 210.798.1900
6110 Rittiman Road 800.549.9860
San Antonio, TX 78218 alamotape.com

TECHNICAL DATA SHEET

Product performance will vary in each application and is dependent upon composite construction. Alamotape does not guarantee the replication of this data by third parties. None of the data or statements contained herein is intended to warrant the performance of this product. Data is representative and not intended as a manufacturing specification.