



TECHNICAL DATA SHEET

PET Insulation – ACP051AFR-D (Single Sided) Acrylic Flame Retardant – ACP151ADFR-D (Double Sided)

A flexible composite insulation composed of 5 mil PET 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.

PRODUCT ATTRIBUTES

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

| REPRESENTATIVE PHYSICAL PROPERTIES | | |
|--|----------------------------------|-------------|
| PROPERTY | VALUE | TEST METHOD |
| NOMINAL THICKNESS , inches | 0.006 – 0.007 | ASTM D374 |
| YIELD | | |
| Square yards per pound | 3.08 | |
| Pounds per square yard | 0.32 | |
| DIELECTRIC STRENGTH , Volts (2-inch diameter electrodes) | 19,000 | ASTM D149 |
| TENSILE STRENGTH , lb/in width | | ASTM D828 |
| Machine Direction (MD) | 135 | |
| Cross Machine Direction (XMD) | 150 | |
| BOND STRENGTH | Adhesive exceeds strength of PET | |
| DIELECTRIC CONSTANT , (23°C, 50% RH, 60 Hz) | 3.2 | ASTM D150 |
| LAMINATION PARAMETERS | | |
| Temperature , °F | 310 | |
| Time , minutes | 30 | |
| Pressure , psi | 25 - 75 | |
| CONTINUOUS USE TEMPERATURE , °C | 105 | |

This product complies with RoHS (Restriction of Hazardous Substances) Directive, citation 2002/95/EC. Arlon Innovations 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 the date of shipment.
- Store in a clean area free from exposure to excessive heat, moisture, or direct sunlight (50°F to 80°F).

Product performance will vary in each application and is dependent upon composite construction. Arlon Innovations 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.