



**TECHNICAL DATA SHEET**

# PET Insulation – ACP031EFR (Single Sided) Epoxy Flame Retardant – ACP131EFR (Double Sided)

A flexible composite insulation composed of 3 mil PET with a 1 mil coating of epoxy thermosetting adhesive on one or both sides. The epoxy 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
<b>NOMINAL THICKNESS</b> , inches	0.004 – 0.005	ASTM D374
<b>DIELECTRIC STRENGTH</b> , Volts (2-inch diameter electrodes)	10,000	ASTM D149
<b>TENSILE STRENGTH</b> , lb/in width Machine Direction (MD) Cross Machine Direction (XMD)	110 90	ASTM D828
<b>PEEL ADHESION (copper)</b> , lbf: 90° Peel (German Wheel)	Substrate Failure (adhesive strength exceeds the film strength)	
<b>DIELECTRIC CONSTANT</b> , (23°C, 50% RH, 60 Hz)	3.2	ASTM D150
<b>LAMINATION PARAMETERS</b> <b>Temperature</b> , °F <b>Time</b> , minutes <b>Pressure</b> , psi	310-350 30 150 – 200	
<b>CONTINUOUS USE TEMPERATURE</b> , °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.*