



TECHNICAL DATA SHEET

Kapton® Insulation - AH051AFR (Single Sided) Acrylic Flame Retardant - ACH151AFR (Double Sided)

A flexible composite insulation composed of 5 mil Kapton® Polyimide coated on one or both sides with an acrylic flame retardant thermosetting (b-stage) adhesive.

PRODUCT ATTRIBUTES

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

REPRESENTATIVE PHYSICAL PROPERTIES		
PROPERTY	VALUE	TEST METHOD
NOMINAL THICKNESS, inches	0.006 (single), 0.007 (double)	ASTM D374
DIELECTRIC STRENGTH (Volts - 2" electrodes)	15,000	ASTM D149
DIELECTRIC CONSTANT (23°C, 50% RH, 100 Hz)	3.2	ASTM D150-81
TENSILE STRENGTH (psi) Machine Direction (MD) Cross Machine Direction (XMD)	33,500 33,500	ASTM D882A
BOND STRENGTH OF ADHESIVE	Exceeds strength of film	
LAMINATION PARAMETERS Temperature (°F) Time (minutes) Pressure (psi)	310 30 25-75	
TEMPERATURE RESISTANCE (Adhesive)	Exceeds Polyimide film	

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).

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.