



410 Nomex® Insulation – 41X051AFR (Single Sided) Acrylic Flame Retardant – 410X151AFR (Double Sided)

A flexible composite insulation composed of 5 mil type 410 Nomex® aramid fiber paper coated on one or both sides with a high-temperature acrylic resin system.

PRODUCT ATTRIBUTES

- Excellent thermal stability and electrical properties
- High tear, tensile and burst strength
- Designed for UL94 V-0 and VTM-0 applications
- 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 Pounds per square yard	0.75 1.33	
DIELECTRIC STRENGTH , Volts (2-inch diameter electrodes)	3560	ASTM D149
TENSILE STRENGTH , lb/in Machine Direction (MD) Cross Machine Direction (XMD)	83 39	ASTM D828
GRAVES TEAR STRENGTH , lb/in Machine Direction (MD) Cross Machine Direction (XMD)	33 17	ASTM D1004
DIELECTRIC CONSTANT (23°C, 50% RH, 60 Hz)	2.4	ASTM D150
DISSIPATION FACTOR (23°C, 50% RH, 60 Hz)	6	ASTM D150
NOMINAL VOLUME RESISTIVITY , Ohm-cm (23°C, 50% RH, 60 Hz)	10 ¹⁷	ASTM D257-66
NOMINAL SURFACE RESISTIVITY , Ohm-cm (23°C, 50% RH, 60 Hz)	10 ¹⁶	ASTM D257-66
LAMINATION PARAMETERS Temperature, °F Time, minutes Pressure, psi	310-350 30 100 – 150	
OPERATING TEMPERATURE , °C	-40 to 180	

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.



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TECHNICAL DATA SHEET

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).

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