TECHNICAL DATA SHEET

Epoxy Coated Nomex® – 418X14EA1 (Single Sided)
Class R 220°C Insulation – 418X14EA2 (Double Sided)

A flexible composite insulation composed of 14 mil 418 Nomex® aramid paper coated on one or both sides with Arlon Innovations epoxy based thermosetting adhesive system. The thermosetting adhesive is applied to the Nomex® in b-stage form. Once b-staged, the product can be heated and pressed for full cure bonding to many substrates.

PRODUCT ATTRIBUTES

- Excellent thermal stability, electrical properties, and chemical resistance
- High adhesive bond strength
- High continuous temperature resistance
- RoHS and REACH compliant

REPRESENTATIVE PHYSICAL PROPERTIES

PROPERTY	VALUE	TEST METHOD
NOMINAL THICKNESS	0.015 inches	ASTM D374

YIELD
    Square yards per pound
    Pounds per square yard
	
	0.9443
	1.0589	

DIELECTRIC STRENGTH (2-inch diameter electrodes)	12,880 Volts	ASTM D149

TENSILE STRENGTH
    Machine Direction (MD)
    Cross Machine Direction (XMD)
	
	85.07 lb/in
	58.24 lb/in
		ASTM D828

DIELECTRIC CONSTANT	3.4 (23°C, 50% RH, 60 Hz)	ASTM D150

LAMINATION PARAMETERS
    Temperature
    Time
    Pressure
	
	350°F
	45 minutes
	50 – 100 psi	

OPERATING TEMPERATURE	-40°C – 220°C	
BOND STRENGTH	Exceeds strength of material	

Lamination Parameters are to be used as guidelines only. Samples should be tested for each application to insure proper usability.

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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