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TECHNICAL DATA SHEET

Epoxy Coated Nomex® – 410X10EA1 (Single Sided)
Class R 220°C Insulation – 410X10EA2 (Double Sided)

A flexible composite insulation composed of 10 mil 410 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	0.011 inches	ASTM D374
YIELD Square yards per pound Pounds per square yard	**1 side** 2.17 0.46	
DIELECTRIC STRENGTH (2-inch diameter electrodes)	8800 Volts	ASTM D149
TENSILE STRENGTH Machine Direction (MD) Cross Machine Direction (XMD)	 180 lb/in 90 lb/in	ASTM D828
DIELECTRIC CONSTANT	3.0 (23°C, 50% RH, 60 Hz)	ASTM D150
180° PEEL ADHESION (STAINLESS STEEL)	Exceeds strength of Nomex	ASTM D3330
LAMINATION PARAMETERS Temperature Time Pressure	 350°F 45 minutes 50 – 100 psi	
OPERATING TEMPERATURE	-40°C – 220°C	

Lamination Parameters are to be used as guidelines only. Samples should be tested for each application to insure proper usability. Parameters can be adjusted to match performance requirements, but curing temperature should never fall below 350°F.

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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