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TECHNICAL DATA SHEET

Epoxy Coated Nomex® – 410X5EA1 (Single Sided)
Class R 220°C Insulation – 410X5EA2 (Double Sided)

A flexible composite insulation composed of 5 mil 410 Nomex® aramid paper coated on one or both sides with Alamotape® 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	0.005 - 0.006 inches	ASTM D374
YIELD Square yards per pound Pounds per square yard	**1 side** 4.76 0.21	
DIELECTRIC STRENGTH (2-inch diameter electrodes)	3650 Volts	ASTM D149
TENSILE STRENGTH: Machine Direction (MD) Cross Machine Direction (XMD)	 83 lb/in 39 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 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.