



A FLEXcon Holdings Company

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**TECHNICAL DATA SHEET**

# 416NM310 - 416 Nomex® / PET Class H 180°C Insulation

A flexible composite insulation composed of type 416 Nomex® meta-aramid paper and electrical grade PET film laminated with a high temperature structural adhesive system.

### PRODUCT ATTRIBUTES

- Excellent thermal stability and electrical properties
- High tear, tensile, and burst strength
- Excellent moisture and chemical resistance
- UL 1446 180°C recognized insulation system, file E60273

### PRODUCT APPLICATIONS

- Slot and phase insulation for motors and generators
- Layer and ground insulation for Class H dry type transformers

REPRESENTATIVE PHYSICAL PROPERTIES		
PROPERTY	VALUE	TEST METHOD
<b>NOMINAL THICKNESS</b> , inches	0.0135	ASTM D374
<b>YIELD</b> Square yards per pound Pounds per Square Yards	1.32 0.76	
<b>DIELECTRIC STRENGTH</b> (Volts - 2" electrodes)	21,400	ASTM D149
<b>TENSILE STRENGTH</b> (psi) Machine Direction (MD) Cross Machine Direction (XMD)	226 284	ASTM D828
<b>DISSIPATION FACTOR, NOMEX</b> (23°C, 50% RH, 60 Hz)	0.006	ASTM D150

### STORAGE

- Shelf life: one (1) year
- 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.*