



**TECHNICAL DATA SHEET**

# 464NM27H

## Class H 180°C Insulation

A flexible composite insulation composed of type 464 Nomex® meta-aramid paper and electrical grade PET film laminated with a high temperature structural adhesive system.

### PRODUCT ATTRIBUTES

- Excellent thermal stability and conductivity
- Excellent mechanical properties
- Excellent electrical properties

| REPRESENTATIVE PHYSICAL PROPERTIES   |                  |             |
|--|------------------|-------------|
| PROPERTY   | VALUE            | TEST METHOD |
| <b>NOMINAL THICKNESS</b> , inches  | 0.010            | ASTM D374   |
| <b>YIELD</b><br>Square yards per pound<br>Pounds per Square Yards                        | 1.70<br>0.59     |             |
| <b>DIELECTRIC STRENGTH</b><br>(Volts – 2” electrodes)                                    | 17,900           | ASTM D149   |
| <b>DIELECTRIC CONSTANT</b><br>(23°C, 50% RH, 60 Hz)                                      | 3.2              | ASTM D150   |
| <b>TENSILE STRENGTH</b> (psi)<br>Machine Direction (MD)<br>Cross Machine Direction (XMD) | 171<br>216       | ASTM D828   |
| <b>DISSIPATION FACTOR</b><br>(23°C, 50% RH, 60 Hz)                                       | 0.005            | ASTM D150   |
| <b>VOLUME RESISTIVITY</b> (Ohm-cm)<br>(23°C, 50% RH)                                     | 10 <sup>15</sup> | ASTM 257-66 |
| <b>SURFACE RESISTIVITY</b> (Ohm)<br>(23°C, 50% RH)                                       | 10 <sup>13</sup> | ASTM-257-66 |

### 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. 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.*