



MANUFACTURERS OF  
ELECTRICAL INSULATION MATERIALS

INSULATING COMPONENTS FOR  
POWER SYSTEMS EQUIPMENT

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## MATERIAL DATA SHEET

**Item:** Epoxy Coated Nomex™ 410 Aramid Paper

**Description:** Epoxy Coated Nomex™ is an Aramid fiber paper (Nomex™ 410) that is coated on one or both sides with a B-staged high-temperature epoxy resin. The Gund Company can custom fabricate this material to the exact specifications and drawings of our customers.

**Processing Directions:** Recommended parameters are 350°F at 90 psi for five seconds to bond and fifteen minutes to initiate cure. However, each user should determine the parameters that best suit the equipment, with running speeds adjusted to permit heat transfer through the Aramid paper to the second coated side. This is a heat sensitive material and should be stored in a cool place. The manufacturer recommends a six-month shelf life.

**Availability:**

Type	Base Thickness	Resin Thickness	Total Thickness	Tolerance
One-Sided Coat	.003" (.08 mm)	.0006" (.015 mm)	.0036" (.09 mm)	± .0003" (.008 mm)
	.005" (.13 mm)	.0006" (.015 mm)	.0056" (.14 mm)	± .0003" (.008 mm)
	.007" (.18 mm)	.0006" (.015 mm)	.0076" (.19 mm)	± .0003" (.008 mm)
	.01" (.25 mm)	.0006" (.015 mm)	.0106" (.27 mm)	± .0003" (.008 mm)
	.015" (.4 mm)	.0006" (.015 mm)	.0156" (.4 mm)	± .0003" (.008 mm)
Two-Sided Coat	.003" (.08 mm)	.0012" (.03 mm)	.0042" (.11 mm)	± .0003" (.008 mm)
	.005" (.13 mm)	.0012" (.03 mm)	.0062" (.16 mm)	± .0003" (.008 mm)
	.007" (.18 mm)	.0012" (.03 mm)	.0072" (.18 mm)	± .0003" (.008 mm)
	.01" (.25 mm)	.0012" (.03 mm)	.0112" (.28 mm)	± .0003" (.008 mm)
	.012" (.3 mm)	.0012" (.03 mm)	.0132" (.34 mm)	± .0003" (.008 mm)
	.015" (.4 mm)	.0012" (.03 mm)	.0162" (.41 mm)	± .0003" (.008 mm)

Key Characteristics	Test Method	Units - English (SI)	Typical Values	
			0.006"	0.012"
Yield	--	lbs./yd. <sup>2</sup>	0.21	0.46
Dielectric Strength	ASTM D-149	Volts	3,650	8,800
Tensile Strength, MD	ASTM D-828	lbs./in.	83	180
Dielectric Constant, 60 Hz	ASTM D-150	--	3.0	3.1
Dissipation Factor, 60 Hz	ASTM D-150	--	0.01	0.01
Volume Resistivity	ASTM D-257-66	Ohm-cm	10 <sup>17</sup>	10 <sup>17</sup>
Surface Resistivity	ASTM D-257-66	Ohm-cm	10 <sup>14</sup>	10 <sup>12</sup>

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