



MANUFACTURERS OF  
**ELECTRICAL INSULATION MATERIALS**  
 INSULATING COMPONENTS FOR  
 POWER SYSTEMS EQUIPMENT

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## MATERIAL DATA SHEET

**Item:** EpoxyCoatedNomex410

**Description:** EpoxyCoatedNomexisanAramidfiberpaper(Nomex 410™)thatiscoatedononesideor bothsideswitha“B”stagedhightemperatureepoxy resin.

**FabricatedParts:** TheGundCompanycustomfabricatesinsulationmaterials totheexactspecificationsanddrawingsofourcustomers.

**Processing Directions:** Recommendedparametersare350 °Fat90PSIforfivesecondstobondandfifteenminutes toinitiatecure.However,eachusershoulddetermineinthe parameterthatbestsuitsthe equipment,withrunningspeedsadjustedtopermitt heattransferthroughtheAramid papertothesecndcoatedside.Thisisaheat sensitive materialandshouldbestored inacoolplace.Themanufacturerrecommendsasix -monthshelflife.

Material	Base Thickness	Resin Thickness	Total Thickness	Tolerance
EpoxyCoated NomexClassF	1 Sided Coat			
	.003"(.08mm)	.0006"(.015mm)	.0036"(.09mm)	+/- .0003"(.008mm)
	.005"(.13mm)	.0006"(.015mm)	.0056"(.14mm)	+/- .0003"(.008mm)
	.007"(.18mm)	.0006"(.015mm)	.0076"(.19mm)	+/- .0003"(.008mm)
	.010"(.25mm)	.0006"(.015mm)	.0106"(.27mm)	+/- .0003"(.008mm)
	.015"(.4mm)	.0006"(.015mm)	.0156"(.4mm)	+/- .0003"(.008mm)
	2 Sided Coat			
	.003"(.08mm)	.0012"(.03mm)	.0042"(.11mm)	+/- .0003"(.008mm)
	.005"(.13mm)	.0012"(.03mm)	.0062"(.16mm)	+/- .0003"(.008mm)
	.007"(.18mm)	.0012"(.03mm)	.0072"(.18mm)	+/- .0003"(.008mm)
	.010"(.25mm)	.0012"(.03mm)	.0112"(.28mm)	+/- .0003"(.008mm)
	.012"(.3mm)	.0012"(.03mm)	.0132"(.34mm)	+/- .0003"(.008mm)
	.015"(.4mm)	.0012"(.03mm)	.0162"(.41mm)	+/- .0003"(.008mm)

Key Characteristics:	Test Method	Units - English	Typical Values	
Yield		lbs/yd <sup>2</sup>	.21	.46
DielectricStrength	ASTMD-149	V	3,650	8,800

All of the information, suggestions, and recommendations herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the use contemplated, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation, warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.

TensileStrength(MD)	ASTMD-828	lbs/in	83	180
DielectricConstant	ASTMD-150at60Hz		3.0	3.1
DissipationFactor	ASTMD-150at60Hz		.01	.01
VolumeResistivity	257-66	Ohm/cm	$10^{17}$	$10^{17}$
SurfaceResistivity	257-66	Ohm/cm	$10^{14}$	$10^{12}$

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