



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS
 INSULATING COMPONENTS FOR
POWER SYSTEMS EQUIPMENT

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MATERIAL DATA SHEET

Item: Epoxy Bonded Mica Plate

Description: Muscovite:
 This product (NEMA Grade 2P) is designed to be hot-formed and molded (135-177 °C, 275-350 °F) into many shapes and configurations such as tubes, rings, channels, angles, etc. When formed into rings, the material is capable of further adjusting to the metal parts of commutator assemblies during seasoning operations. Full cure can be attained by constraining the shape and heating (149 -177 °C, 300-350 °F) for approximately one (1) hour minimum.

Phlogopite:
 This product (NEMA Grade 3P) is a hard, dense, epoxy-bonded, phlogopite, mica paper plate for use in segments, separators and spacers. It exhibits good electrical properties, mechanical strength, excellent moisture resistance, and can be sawed, sheared and punched into intricate shapes using good commercial practice. Because of its superior uniformity, automatic feeding and stacking are possible for cost savings in high-speed assembly operations.

Availability: Laminate Sheets: Thickness: English units 0.040"–3"
 Sheet Sizes: 36"x36"
 40"x40" SI Units 1mm–75mm
 914cmx914cm
 1,016cmx1,016cm

Fabricated Parts: TheGundCompany custom fabricates insulation materials to the exact specifications and drawings of our customers.

Key Characteristics:	Test Method	Units - English (SI)	Typical Values	
			Muscovite	Phlogopite
Binder Type		°F (°C)	311(155)	311(155)
Binder Content			14-20%	7-10%
Density	ASTM D-570	lbs/in ³ (g/cc)	.085(2.35)	.088(2.4)
Thermal Stability at 200 °C 10,000psi			----	Nominal slippage or binder ooze
Dielectric Strength (Perp. 2", air)	ASTM D-149 (A-short)	V/mil(kV/mm)	750(30)	750(30)

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