



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

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## MATERIAL DATA SHEET

**Item:** MoldPlatenInsulation, GradeMPI

**Description:** GradeMPI is a high compressive strength, heat resistant composite insulating material. It can be finished to close thickness tolerance, which makes it ideal for insulating between the mold and the pressor within the mold itself. The low thermal conductivity helps control mold temperature by reducing heat loss and allows for faster mold startup.

**Standards:** NEMALI-1 Not Applicable  
 IEC60893 Not Applicable

**Availability:** English units SI Units  
 Laminate Sheets: Thickness: 0.125"–2" 3mm–50.8mm  
 Sheet Sizes: 37"x73" 94cmx185cm  
 49"x98" 125cmx249cm

**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
Standard Color			Off-white
Density		lbs/in <sup>3</sup> (g/cc)	0.071(1.96)
Water Absorption(1/8"thick)	ASTMD-570	%	0.2
Tensile Strength	ASTMD-638	psi(MPa)	16,000(110)
Compressive Strength	ASTMD-695 (roomtemp)	psi(MPa)	49,000(338)
	ASTMD-695,(150C)	psi(MPa)	30,000(207)
	ASTMD-695,(200C)	psi(MPa)	23,000(159)
	ASTMD-695,(288C)	psi(MPa)	20,000(138)
Flexural Strength(Lengthwise)	ASTMD-790 (roomtemp)	psi(MPa)	28,000(193)
(Crosswise)	ASTMD-790 (roomtemp)		31,000(214)
Dielectric Strength(Perp.1/16",oil)	ASTMD-149 (A-short)	V/mil(kV/mm)	450(17.7)
Glass Transition Temperature	ASTMDSC	°F( °C)	415(213)
Thermal Conductivity	ASTMC-177	Btu/hr/ft <sup>2</sup> /in/ °F	1.9
Coefficient of Thermal Expansion	ASTM D-696 (across plain)	10 <sup>-5</sup> in/in/°F	1.25
	ASTM D-696 (through thickness)	10 <sup>-5</sup> in/in/°F	6.50

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