



THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item:	Mold Platen Insulation (MPI)			
Description:	Mold Platen Insulation (MPI) from The Gund Company 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 press or within the mold itself. The low thermal conductivity helps control mold temperature by reducing heat loss and allows for faster mold startup.			
Availability:	Laminate Sheets:		Sheet Size	Thickness
		English Units (in)	36 x 72 48 x 96	0.031 - 2.000 .118 - 1.500
		Si Units (mm)	914 x 1828 1219 x 2438	0.78 - 50.8 3.0 - 38.1
	Fabricated Parts:	The Gund Company 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 ³ (g/cc)	0.071 (1.96)
IZOD Impact Strength	Lengthwise:	ASTM D-256	ft.-lbs./in.	14.8
	Crosswise:			13.4
Compressive Strength	At Ambient Temperature:	ASTM D-695	PSI (MPa)	49,000 (337)
	At 150 °C:		PSI (MPa)	30,000 (207)
	At 200 °C:		psi (MPa)	23,000 (159)
	At 250°C:		psi (MPa)	20,000 (138)
Flexural Strength	Lengthwise:	ASTM D-790	psi (MPa)	29,500 (200)
	Crosswise:			24,500 (169)
Thermal Conductivity		ASTM C-177	Btu/hr/ft ² /in/°F (W/(m*K))	3.162 (0.456)
Water Absorption		ASTM D-570	%	0.12
Thickness Tolerance		--	in (mm)	0.003 (0.0762)
Tensile Strength		ASTM D-638	psi (MPa)	16,000 (110)
Dielectric Strength		ASTM D-149	V/mil (kV/mm)	450 (17.7)
Max Operating Temperature		ASTM DCS	°F (°C)	392 (200)
Coefficient of Thermal Expansion		ASTM D-696	10 ⁻⁵ in/in/°F	1.25