



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

MPI - Mold Platen Insulation

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. The low thermal conductivity helps control mold temperature by reducing heat loss and allows for faster mold startup.		
Availability:	Laminate Sheets:	Sheet Size:	English Units (in): 36 x 72 / 48 x 96 SI Units (mm): 914 x 1828 / 1219 x 2438
		Thickness:	English Units (in): 0.031 - 2.000 / 0.118 - 1.500 SI Units (mm): 0.78 - 50.8 / 3.0 - 38.1
	Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by 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			30,000 (207)
	at 200 °C			23,000 (159)
	at 250 °C			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)
Continuous Use Temperature		--	°F (°C)	428 (220)
Coefficient of Thermal Expansion		ASTM D-696	10 ⁻⁵ in/in/°F	1.25

Data supplied above are typical values and are not to be considered specification values. All of the information, suggestions and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding suitability of any material described herein for the contemplated application, 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.