



THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item:	PCGP-HT			
Description:	PCGP-HT is a new thermoset composite comprised of woven fiberglass and a unique blend of high-temperature resin binders designed for applications that demand superior performance at elevated temperatures. Designed as a cost-effective alternative to Engineered Thermoplastics, PCGP-HT has outstanding flexural and impact strength, maintains a high percentage of mechanical & insulating properties up to 500°F. PCGP-HT offers excellent dimensional stability and creep resistance and has good resistance to moisture, chemicals, alkali, and acids. It does not melt or soften at elevated temperatures and offers extended application capability beyond typical NEMA grades.			
Standards:				
Availability:		English Units (in)	SI Units (cm)	
	Laminate Sheets:	Sheet Size:	48"x48, 48"x96"	122 cm x 122 cm, 122 cm x 244 cm
		Thickness:	0.016" to 3.50"	.41 mm to 88.9 mm
	Fabricated Parts:			

Key Characteristics	Test Method	Units - English (SI)	Typical Values	
Specific Gravity	--	--	1.81	
Water Absorption - 0.125"	ASTM D-570	%	<0.6	
Tg-DMA Method - 0.125"	--	°C/°F	280\536	
Rockwell Hardness	--	M Scale	117	
Bond Strength	ASTM D-229	lb / (kg)	>1,450\658	
Flexural Strength 0.062" Thick	Lengthwise	ASTM D-790	PSI (MPa)	>60,000/414
	Crosswise	ASTM D-229	PSI (MPa)	>60,000/414
LW & CW & 150C/302F x 1 hour	--	PSI (MPa)	>50,000/345	
LW & CW & 220C/428F x 1 hour	--	PSI (MPa)	>35,000/241	
LW & CW & 260C/500F x 1 hour	--	PSI (MPa)	>30,000/207	
IZOD Impact Strength	Lengthwise	ASTM D-256	ft-lb/in	>17
	Crosswise	ASTM D-256	ft-lb/in	>14
Compressive Strength-Flatwise	ASTM D-695	PSI (MPa)	>60,000/414	
Shear Strength - A- 0.125"	ASTM D-732	PSI (MPa)	>20,000/138	
Electrical Data				
Dielectric Breakdown - 0.156"	Condition A	Volts	>65,000	
Dielectric Strength - Step by Step - 0.125"		VPM	>450	
Arc Resistance	ASTM D-495	Seconds	>180	