



# THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

## PCGP-HT Thermoset Composite

<b>Item:</b>	<b>PCGP-HT</b>			
<b>Description:</b>	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.			
<b>Availability:</b>	<b>Laminate Sheets:</b>	Thickness:	English Units (in) 0.016 - 3.50	SI Units (mm/cm) 0.41 - 88.9 (mm)
		Sheet Size:	48 x 48 / 48 x 96	122 x 122 / 122 x 244 (cm)
	<b>Fabricated Parts:</b>	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	
Specic 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 (0.125"), A	ASTM D-732	PSI (MPa)	> 20,000/138	
<b>Electrical Data</b>				
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	

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.