



# MATERIAL DATA SHEET

## Grade PCGP-HT

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- Description:** Port City Grade PCGP-HT is a heat-resistant laminate made from a fiberglass cloth saturated with a high-temperature phenolic resin. PCGP-HT has a high mechanical strength, excellent heat resistance, and low thermal expansion.
- Application:** Motor slot insulation, high temperature electromechanical applications.
- Color:** Black
- Thickness Range:** 0.013" - 2.000"
- Size:** Fabricated parts available in lengths to 48".

### Engineering Data

Property	Test Condition	Units	Typical Value
Density	A	gms/cc	1.88
Specific Volume	A	cu in/lb	20.5
Flexural Strength	A		
Lengthwise		psi	<b>61,500</b>
Crosswise		psi	<b>59,000</b>
Flexural Strength	E-1/150		
Lengthwise		psi	<b>50,000</b>
Impact Strength	A	ft-lb/in notch	
Izod, Edgewise			
Lengthwise			<b>20</b>
Crosswise			<b>15</b>
Compressive Strength	A	psi	<b>60,000</b>
Rockwell Hardness	A	M scale	110
Bond Strength (1/2")	A	lb	1,800
Dielectric Strength (Parallel)	A	kv	<b>55</b>
Dielectric Constant	A		<b>6.35</b>
Dissipation Factor	A	@ 1 MHz	<b>.022</b>
Arc Resistance		sec	<b>100</b>
Thermal Expansion		/°F	5 E-5
Water Absorption	D-24/23	percent	
.062			0.28
.125			0.15
Heat Resistance			
Short Term		°F	<b>600</b>
Continuous		°F	<b>450</b>

Values shown are for test samples made from production materials and are believed to be representative. THERE IS NO WARRANTY, EXPRESSED, OR IMPLIED. The purchaser/end user assumes all responsibility for testing and determining the suitability of any material for its intended use.