

Momentive Performance Materials "PG" Pyrolytic Graphite

Category : Carbon , Graphite

Material Notes:

Pyrolytic Graphite (PG) is a unique form of graphite manufactured by decomposition of a hydrocarbon gas at very high temperature in a vacuum furnace. The result is an ultra-pure product which is near theoretical density and extremely anisotropic. This anisotropy results from the layered structure. As an example, PG exhibits a thermal conductivity consistent with the best conductors in the "AB" plane and lower than alumina brick in the "C" direction. Mechanical thermal, and electrical properties are generally far superior to conventional graphites. Typical properties are listed below. PG is Available as plate, free-standing shapes (crucibles, boats, tubes, etc.), and as an impermeable coating on graphite and other substrates.APPLICATIONS:Sputtering Targetslon Beam Gridslon Implant HardwareLiquid Phase Epitaxy HardwareCrucibles for Ultra High VacuumThermal InsulatorsRocket NozzlesHeater ElementsInformation provided by Momentive Performance Materials, formerly GE Advanced Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-PG-Pyrolytic-Graphite.php

Physical Properties	Metric	English	Comments
Density	2.18 - 2.22 g/cc	0.0788 - 0.0802 lb/in³	
c Lattice Constant	3.42 Ã	3.42 Ã	C/2

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	80.0 MPa	11600 psi	"ab" direction
Modulus of Elasticity	20.0 GPa	2900 ksi	Young's modulus; "ab" direction
Compressive Yield Strength	100 MPa	14500 psi	"ab" direction

Thermal Properties	Metric	English	Comments
CTE, linear	0.500 µm/m-°C	0.278 µin/in-°F	ab direction
	@Temperature 20.0 °C	@Temperature 68.0 °F	
6.50 µm/m-°C	6.50 µm/m-°C	3.61 µin/in-°F	c direction
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	>= 3.50 W/m-K	>= 24.3 BTU-in/hr-ft²- °F	in "c" direction
	>= 400 W/m-K	>= 2780 BTU-in/hr- ft²-°F	in "ab" direction
Sublimation Temperature	3650 °C	6600 °F	



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