

## Momentive Performance Materials Pyrolytic Graphite (PG) Coating

Category : Carbon , Graphite , Other Engineering Material , Ceramic/Metallic Coating

### Material Notes:

PG is a popular coating for sealing machined graphite hardware which does not require oxidation protection. It is the most anisotropic commercially available material and is therefore useful where thermal management is important. PG coatings can be applied to PBN crucibles and plates as in Advanced Ceramics' patented "Hot-Lip" MBE crucibles and Boralectric<sup>®</sup> heaters. Information provided by Momentive Performance Materials, formerly GE Advanced Ceramics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Momentive-Performance-Materials-Pyrolytic-Graphite-PG-Coating.php](http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-Pyrolytic-Graphite-PG-Coating.php)

Physical Properties	Metric	English	Comments
Density	2.20 g/cc	0.0795 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	20.0 GPa	2900 ksi	Young's modulus
Compressive Strength	100 MPa	14500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	0.500 $\mu\text{m/m-}^\circ\text{C}$ @Temperature 20.0 $^\circ\text{C}$	0.278 $\mu\text{in/in-}^\circ\text{F}$ @Temperature 68.0 $^\circ\text{F}$	ab direction
Thermal Conductivity	3.50 W/m-K	24.3 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$	in "c" direction
	400 W/m-K	2780 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$	in "ab" direction
Sublimation Temperature	3650 $^\circ\text{C}$	6600 $^\circ\text{F}$	
Maximum Service Temperature, Air	400 $^\circ\text{C}$	752 $^\circ\text{F}$	oxidation limit

Optical Properties	Metric	English	Comments
Emissivity (0-1)	0.80	0.80	normal spectrum

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000250 ohm-cm	0.000250 ohm-cm	

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