

## UCAR Carbon UCAR® PGW Pressure Molded Graphite

Category : Carbon , Graphite

**Material Notes:**

An economical low ash material with excellent thermal shock resistance, Grade PGW is well suited for the fine machining detail required in molds for casting metal shapes. Grade PGW is a molded version of Grade CBY with excellent internal structure. Typical

Applications: Pressure casting molds Centrifugal casting molds Large diameter susceptors, furnace bases and covers Heat shields Tabular property data is typical across grain. Information provided by UCAR Carbon Company, a GrafTech International Ltd. company.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_UCAR-Carbon-UCAR-PGW-Pressure-Molded-Graphite.php](http://www.lookpolymers.com/polymer_UCAR-Carbon-UCAR-PGW-Pressure-Molded-Graphite.php)

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in <sup>3</sup>	
Particle Size	<= 750 µm	<= 750 µm	
Ash	0.12 %	0.12 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	13.5 MPa	1960 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	3.60 µm/m-°C	2.00 µin/in-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Thermal Conductivity	130 W/m-K	902 BTU-in/hr-ft <sup>2</sup> -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000930 ohm-cm	0.000930 ohm-cm	

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