

## UCAR Carbon UCAR® PGX Pressure Molded Graphite

Category : Carbon , Graphite

**Material Notes:**

Available in low ash monolithic sizes as large as 73" diameter, Grade PGX has excellent erosion resistance and thermal properties. Typical Applications: Fluidized bed reactors Centrifugal casting molds Large diameter molds and crucibles Monolithic composite tooling parts Induction and vacuum furnace parts Heat exchangers Chemical process equipment Tabular property data is typical. 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-PGX-Pressure-Molded-Graphite.php](http://www.lookpolymers.com/polymer_UCAR-Carbon-UCAR-PGX-Pressure-Molded-Graphite.php)

Physical Properties	Metric	English	Comments
Density	1.73 g/cc	0.0625 lb/in <sup>3</sup>	
Particle Size	<= 750 µm	<= 750 µm	
Ash	0.070 %	0.070 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	11.0 MPa	1600 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	2.20 µm/m-°C	1.22 µin/in-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Thermal Conductivity	125 W/m-K	868 BTU-in/hr-ft <sup>2</sup> -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00101 ohm-cm	0.00101 ohm-cm	

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