

Grade PGW™ Molded Graphite

Since 1886, UCAR Carbon Company has been supplying quality carbon and graphite products, skilled technical service, and experienced application assistance worldwide.

Advanced Graphite Materials

Grade PGW™ Molded Graphite

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

Typical Applications

- Pressure casting molds
- Centrifugal casting molds
- Large diameter susceptors

Sizes

Grade PGW Molded: 44 x 23"
 44 x 15"
 50 x 15"
 50 x 23"
 52 x 23"

Typical Properties at Room Temperature

	<u>ENGLISH</u>	<u>AG</u>	<u>METRIC</u>	<u>AG</u>
Density	lbs/ft ³	102	g/cm ³	1.63
Average Particle Size	inches	0.03	mm	0.76
Specific Resistance	10 ⁻⁴ Ω in.	3.66	μΩm	9.3
Flexural Strength	psi	1960	kg/cm ²	138
Young's Modulus	10 ⁻⁶ psi	1.0	kg/mm ²	700
Tensile Strength	psi	1255	kg/cm ²	88
Compressive Strength	psi	4960	kg/cm ²	348
Permeability	AFS	0.5	Darcy	0.16
Hardness	Shore	32	Shore	32
C.T.E. (to 100 °C)	10 ⁻⁶ /°F	2.0	10 ⁻⁶ /°C	3.6
Thermal Conductivity	BTU-ft/hr ft ² °F	75	W/mK	130
Ash Content	%	0.12	%	0.12

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