



PROPERTIES OF GRAPHITE GRADE JP900

GENERAL

Isomolded, very fine grain, high strength, high density, isotropic graphite for high mechanical applications. Maximum operating temperature 850°F (450°C).

PROPERTIES

	Typical Values	
	English Units	SI Units
Bulk Density	113,5 lbs/ft ³	1,82 g/cm ³
Specific Resistance	0.00047 ohm-in	1200 µohm.cm
Flexural Strength	7,250 psi	50 MPa
Compressive Strength	18,850 psi	130 MPa
Tensile Strength	4,640 psi	32 MPa
Modulus of Elasticity	1,991,000 psi	14 Gpa
Shore Hardness	65	65
Coefficient of Thermal Expansion	2.9 x 10E-6/°F	5,2 x 10E-6/°C
Porosity	11%	11%
Average grain size	0.0004 inch	10 µm
Permeability	0.40 cm ² .sec-1	0,40 cm ² .sec-1
Thermal Conductivity	49 Btu-Ft/Ft ² Hr°F	85 W/m°C
Ash	< 0.1%	< 0,1%
Maximum block size	12 x 24 x 36 in	308 x 620 x 915 mm

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