



PROPERTIES OF CARBON GRADE JP 1345

GENERAL

Isomolded, very fine grain, high strength, high density, isotropic carbon, resin impregnated for high mechanical and sealing applications. Maximum operating temperature 400°F (200°C).

PROPERTIES

	Typical Values	
	English Units	SI Units
Bulk Density	116 lbs/ft ³	1,86 g/cm ³
Specific Resistance	0.00118 ohm-in	3,000 µohm.cm
Flexural Strength	10,730 psi	74 MPa
Compressive Strength	27,985 psi	193 MPa
Tensile Strength	7,250 psi	50 MPa
Modulus of Elasticity	1.7 x 10E 6 psi	12 Gpa
Shore Hardness	86	86
Coefficient of Thermal Expansion	2.3 x 10E-6/°F	4,2 x 10E-6/°C
Porosity	< 1%	< 1%
Average grain size	0.0006 inch	15 µm
Thermal Conductivity	6 Btu-Ft/Ft ² Hr°F	12 W/m°C
Ash	1,000 ppm	1000 ppm
Maximum block size	5.10 x 12 x 17.70 in	130 x 305 x 450 mm

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