



PROPERTIES OF GRAPHITE GRADE ELLOR®+18

GENERAL

Isomolded, very fine grain, high strength, high density, isotropic graphite. Maximum inert service temperature 5,000 F (2760 °C).
Standard Sizes: 308 x 620 x 1830 mm
308 X 620 x 915 mm

TYPICAL

APPLICATIONS

Formulated for EDM applications requiring medium surface finish and high metal removal rates.
Surface finish 4.5 to 9 Raµm.

PROPERTIES

	Typical Values	
	English Units	SI Units
Bulk Density	111 lbs/ft ³	1,78 g/cm ³
Grain Size	0.0005 inch	12 µm
Specific Resistance	0.00054 ohm-in	1370 µohm.cm
Flexural Strength	6,500 psi	45 MPa
Tensile Strength	4,200 psi	29 MPa
Compressive Strength	14,300 psi	99 MPa
Hardness (Shore)	55	55
Hardness (Rockwell L)	98	98
Coefficient of Thermal Expansion (400 to 500°C)	2.9 x 10E-6/°F	5,2 x 10E-6/°C
Porosity	12%	12%
Thermal Conductivity	55 Btu-Ft/Ft ² Hr°F	95 W/m°C
Ash	400 ppm	400 ppm

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