



## PROPERTIES OF GRAPHITE GRADE ELLOR<sup>®</sup>+50

### GENERAL

Isomolded, micro-grain, high strength, isotropic graphite. Maximum inert atmosphere service temperature 5,000 F (2760 °C) Standard size: 305 x 305 x 915 mm

### PROPERTIES

	Typical Values	
	English Units	SI Units
<b>Bulk Density</b>	116 lbs/ft <sup>3</sup>	1,86 g/cm <sup>3</sup>
<b>Grain Size</b>	0.0002 inch	5 µm
<b>Specific Resistance</b>	0.00050 ohm-in	1270 µohm.cm
<b>Flexural Strength</b>	11,000 psi	76 MPa
<b>Tensile Strength</b>	6,400 psi	44 MPa
<b>Compressive Strength</b>	22,400 psi	154 MPa
<b>Hardness Rockwell H</b>	95	95
<b>Coefficient of Thermal Expansion (400 to 500 °C)</b>	3.3 x 10E-6/°F	6,0 x 10E-6/°C
<b>Porosity</b>	7 %	7 %
<b>Thermal Conductivity</b>	59 Btu-Ft/Ft <sup>2</sup> Hr°F	102 W/m°C
<b>Ash</b>	400 ppm	400 ppm

### TYPICAL APPLICATIONS

Micro-grain EDM graphite which allows exceptional surface finishes associated with low electrode wear rates and excellent metal removal rates. Surface finish 0.56 to 1.60 Raµm.

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