



## PROPERTIES OF GRAPHITE GRADE ELLOR<sup>®</sup>+25

### GENERAL

Isomolded, very fine grain, high strength, isotropic graphite. Maximum inert atmosphere service temperature 5,000 F (2760 °C)

Standard Size - 12" x 24" x 72"  
(308 mm x 620 mm x 1830 mm)

### TYPICAL APPLICATIONS

A high quality EDM graphite. A good universal EDM material which yields both good metal removal rates and wear characteristics, while producing an excellent surface finish. Surface finish 1.6 to 3.15 Raµm.

### PROPERTIES

	Typical Values	
	English Units	SI Units
<b>Bulk Density</b>	114 lbs/ft <sup>3</sup>	1,83 g/cm <sup>3</sup>
<b>Grain Size</b>	0.0004 inch	9 µm
<b>Specific Resistance</b>	0.00048 ohm-in	1220 µohm.cm
<b>Flexural Strength</b>	8,000 psi	55 MPa
<b>Tensile Strength</b>	5,000 psi	34 MPa
<b>Compressive Strength</b>	17,300 psi	119 MPa
<b>Hardness - Shore</b>	65	65
<b>Hardness - Rockwell H</b>	80	80
<b>Coefficient of Thermal Expansion (400 to 500°C)</b>	3.1 x 10E-6/°F	5,6 x 10E-6/°C
<b>Porosity</b>	8%	8%
<b>Thermal Conductivity</b>	61 Btu-Ft/Ft <sup>2</sup> Hr°F	106 W/m°C
<b>Ash</b>	400 ppm	400 ppm

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