

## Grade: FC-GR

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<b>Manufacturer:</b>	Graphtek LLC
<b>Method of Manufacturing:</b>	Molded
<b>Description:</b>	Resin-filled grade that combines best properties of graphite such as high electrical conductivity, high thermal conductivity, chemical resistance and easy machining with low permeability of molded composites.

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PROPERTY	US VALUE	METRIC VALUE
<b>Density</b>	<b>0.069</b> lb/in <sup>3</sup>	<b>1.90</b> g/cc
<b>Particle Size</b>	<b>0.00059</b> in	<b>0.0015</b> cm
<b>Shore Hardness</b>	<b>62</b>	<b>62</b>
<b>Flexural Strength</b>	<b>7'900</b> psi	<b>55</b> mpa
<b>Compressive Strength</b>	<b>16'000</b> psi	<b>110</b> mpa
<b>Maximum Temperature</b>	<b>500</b> °F	<b>260</b> °C
<b>Porosity</b>	<b>0</b> % VOL	<b>0</b> % VOL
<b>Electrical Resistivity</b>	<b>0.00047</b> ohm/inch	<b>12</b> μΩm
<b>Thermal Conductivity</b>	<b>63</b> BTU/(h.ft <sup>2</sup> °F/ft)	<b>108</b> W/(mK)
<b>CTE</b>	<b>2.6</b> in/in °F x 10 <sup>-6</sup>	<b>4.68</b> x 10 <sup>-6</sup> °C