

Grade: FC-GR

Manufacturer:	Graphtek LLC
Method of Manufacturing:	Molded
Description:	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.

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