



GRAPHITE SPECIFICATIONS

PROPERTY (ROOM TEMPERATURE)	UNITS	AVERAGE	UNITS (METRIC)	AVERAGE
Bulk Density	lb. /ft. ³	99.26	Mg/m ³	1.59
Specific Resistance With Grain Across Grain	10 ⁻⁴ ohm-in.	3.33 4.74	ohm-meter	8.47 12.05
Flexural Strength With Grain Across Grain	PSI	1297 995	k Pa (kN/m ²)	8940 6860
Tensile Strength With Grain Across Grain	PSI	713 630	k Pa (kN/m ²)	4920 4340
Compressive Strength With Grain Across Grain	PSI	2877 2802	k Pa (kN/m ²)	19840 19320
Young's Modulus With Grain Across Grain	10 ⁶ PSI	0.96 0.61	M Pa (MN/m ²)	6620 4210
Coefficient of Thermal Expansion With Grain Across Grain	10 ⁻⁶ / °F	0.72 1.35	10 ⁻⁶ / °C	1.32 2.43
Thermal Conductivity With Grain Across Grain	$\frac{\text{BTU} \times \text{ft}}{\text{hr.} \times \text{ft.}^2 \times \text{°F}}$	88 62	W / m x °C	152 107
Permeability With Grain Across Grain			Darcy's	0.493 0.444
Coefficient of Friction		0.15		0.15

SLIDE PLATES

