

Typical properties of Isostatically pressed graphite

Material: graphite

Forming: Isostatically pressed

Application:

Typical properties	Electronic application	PV application	Industrial application	Units
Average grain size	10	11	8~10	μm
Bulk density	1.8	1.88	1.68	g/cm ³
Open porosity	10		18	Vol. %
Shore hardness	65	75	60	
Rockwell hardness 5/100				
Rockwell hardness 10/100				
Resistivity	11~13	13-17	13-15	μΩm
Flexural strength	50	60	38	MPa
Compressive strength		120	80	MPa
Dynamic modulus of elasticity			8.8	GPa
Thermal expansion (room temperature-6 00°C)	4.7 x 10 ⁻⁶	5.5 x 10 ⁻⁶	5.8 x 10 ⁻⁶	K ⁻¹
Thermal conductivity	115		80-100 (100°C)	Wm ⁻¹ K ⁻¹
Ash content		60	500	PPM

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Typical averages for different shapes and sizes. Actual values may vary depending on size and shape.