

Tokai Carbon - Isotropic Graphite Grade

G458

1. Typical Properties

Specific Gravity	g/cm ³	1.86
Specific Resistance	μΩm	9.5
Young's Modulus	GPa	11.3
Flexural Strength	MPa	53.9
Tensile Strength	MPa	35.3
Hardness	shore	54
C.T.E	× 10 ⁻⁶ /°C	4.4
Thermal Conductivity	W/mK	139
Pore Size	μm	n/a
Porosity	%	10
Grain Size	mm	10
Gas Permeability	cm ² /sec	0.08

All properties measured room temperatures except for C.T.E.
 C.T.E. = Coefficient Thermal Expansion (R.T. to 1000°C)
 Flexural Strength determined using third point loading
 All properties are typical values and are not to be used for specification limits