

**Tokai Isotropic Graphite Data Sheet**

# ***G347S***

## 1. Typical Properties

Specific Gravity	g/cm <sup>3</sup>	1.85
Specific Resistance	μΩm	11.0
Young's Modulus	GPa	10.8
Flexural Strength	MPa	49.0
Tensile Strength	MPa	31.4
Shore Hardness	sHD	58
C.T.E	× 10 <sup>-6</sup> /°C	5.5
Thermal Conductivity	W/mK	116
Pore Size	μm	2.5
Porosity	%	12
Grain Size	μm	11
Gas Permeability	cm <sup>2</sup> /sec	0.30

S=Purified Material

Grade	Impurity (ppm)								Total Ash
	Al	B	Ca	Fe	Ni	Si	Ti	V	
Standard	0.48	1	74	15	1.7	23	28	7.6	300
S	<0.08	<0.7	<0.04	<0.06	<0.1	<1	<0.09	<0.07	<20
SS	<0.08	0.2	<0.04	<0.04	<0.1	<0.1	<0.09	<0.07	<5

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

Note: All properties are typical values and are not to be used for specification limits

