

Typical Properties of GLASSMATE® Graphite Grades

	GM	LT	HT	SR
Average particle size	5 µm (197 µin)	5 µm (197 µin)	5 µm (197 µin)	10 µm (394 µin)
Apparent density	1.74 g/cc (0.063 lb/in ³)	1.77 g/cc (0.064 lb/in ³)	1.74 g/cc (0.063 lb/in ³)	1.80 g/cc (0.065 lb/in ³)
Compressive strength	130 MPa (18,800 psi)	155 MPa (22,500 psi)	136 MPa (19,700 psi)	108 MPa (15,600 psi)
Flexural strength	81 MPa (11,800 psi)	86 MPa (12,500 psi)	81 MPa (11,800 psi)	58 MPa (8,400 psi)
Hardness	74 shore	96 shore	74 shore	68 shore
Coefficient of thermal expansion	8.1 µm/m°C (4.5 µin/in°F)	8.5 µm/m°C (4.7 µin/in°F)	8.1 µm/m°C (4.5 µin/in°F)	8.3 µm/m°C (4.6 µin/in°F)
Thermal conductivity ¹	85 W/m-K (50 Btu•ft/hr•ft ² •°F)	60 W/m-K (35 Btu•ft/hr•ft ² •°F)	85 W/m-K (50 Btu•ft/hr•ft ² •°F)	98 W/m-K (57 Btu•ft/hr•ft ² •°F)
Electrical resistivity	580 µOhm•in (14.7 µOhm•m)	965 µOhm•in (24.5 µOhm•m)	580 µOhm•in (14.7 µOhm•m)	575 µOhm•in (14.6 µOhm•m)
Oxidation threshold ² (standard grade)	450 °C 842 °F	470 °C 878 °F	607 °C 1,125 °F	460 °C 860 °F

¹Approximate values taken at room temperature; as temperature increases, thermal conductivity decreases.

²Oxidation threshold is defined as temperature at which oxidation weight loss after 24 hours is approximately 1%.



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