

Material Properties	Unit	Shapal Hi M
Density	g/cm ³	2.9
Vickers hardness	HV	250
Bending strength	MPa	350
Compressive strength	MPa	1100
Elastic modulus	GPa	290
Toughness	MPa·m ^{1/2}	2.4
Poisson's ratio	—	0.31
Young's Modulus	GPa	176

Thermal Properties	Unit	Shapal Hi M
Thermal Conductivity @ -100°C	W/mK	100
Thermal Conductivity @ 25°C	W/mK	92
Thermal Conductivity @ 500°C	W/mK	55
Thermal Conductivity @ 1000°C	W/mK	35
Thermal Shock Resistance ΔT	°C	400
CTE ¹ 25°C —400°C	10 ⁻⁶ /K	4.8
CTE ¹ 25°C —600°C	10 ⁻⁶ /K	4.9
Maximum Temperature (Inert) ²	°C	1900



Electrical Properties	Unit	Shapal Hi M
Dielectric constant	1 MHz	8.6
Breakdown strength	kV/mm	14
Dielectric loss	1 MHz	0.001
Volume resistivity @ 25 ° C	Ω·cm	10*10 ¹⁵
Volume resistivity @ 500 ° C	Ω·cm	3.2*10 ¹⁰
Volume resistivity @ 1000 ° C	Ω·cm	4.6*10 ⁵

Note: This value is for reference only and may vary slightly depending on the batch conditions.

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