

Physical properties		Standard
Density	> 99.5% > 6.02 g/cm ³	ISO 18754
Mechanical properties		
Hardness	>1260 HV	ASTM C1327
Shrinkage	Linear 17.8% per axis (isotropic)	
Flexural strength (4-point bending strength)	830 - 1050 MPa	ASTM C1161
Young's Modulus of Elasticity	215 GPa	ASTM E494-20
Fracture Toughness	4.5 MPa · m ^{1/2}	
Poisson's Ratio	0.31	ASTM C818
Thermal properties		
Thermal Conductivity	3 W/(m · K)	ASTM C408
Coefficient of liner thermal expansion	10 (40-400°C) ppm/°C E-6 11 (40-800°C) ppm/°C E-6	ASTM C372
Specific Heat Capacity	0.46 J/(Kg·K)	ASTM C351
Thermal Shock resistance (Temperature Difference)	150 °C	
Electrical properties		
Volume Resistivity	20°C - 1.5E+12 Ω·cm 300°C - 8.3E+06 Ω·cm 500°C - 8.8E+06 Ω·cm	ASTM D257
Dielectric Strength	11 kV/mm	ASTM D149
Dielectric Constant (1 MHz)	34	ASTM D150
Dissipation Factor	0.0096 (1KHz)	ASTM D150
Others		
MSDS availability	EU, US, RU	
Cartridge Weight	3Kg	
Storage conditions	15 - 35°C; < 50% relative humidity, non-condensing	
Suitable protection	As per instructions on the cartridge	
Risk phrases	P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. H319 Causes serious eye irritation	
First aid	As per instructions on the cartridge	
Shelf life	1 year at room temperature	

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