## Sapphire glass

Performance parameters of sapphire glass

Material Properties	Unit	Sapphire
Density	g/cm³	3.98
Vickers hardness	HV	2000
Bending strength	MPa	400
Compressive strength	MPa	2000
Elastic modulus	GPa	370
Toughness	MPa·m¹/²	3.5
Poisson's ratio	<b>—</b>	0.23
Young's Modulus	GPa	370

Thermal Properties	Unit	Sapphire
Thermal conductivity	W/mK	46
melting point	°C	2050
Maximum operating temperature	°C	2000
linear expansion coefficient	10-6/K	8



Electrical Properties	Unit	Sapphire
Dielectric constant	1 MHz	9.3
Breakdown voltage	V/cm	30
Dielectric loss	1 MHz	≤10 <sup>-4</sup>
Resistivity	$\Omega \cdot cm$	≥10 <sup>16</sup>

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

Jundro Ceramics is a global material manufacturer that offers a wide range of advanced materials

We produce high-quality and complex products, providing significantly enhanced performance for customers engineering.

Our comprehensive service range includes material selection, precision machining, surface treatment, and quality testing to ensure that each product can perform its best practical applications.

## DONGGUAN JUNDRO CERAMICS TECHNOLOGY CO.LTD

Add: Room 306, Gate B, Unit 1, Block 2 South, No. 1 Yile Road, Songshan Lake, Dongguan City, Guangdong Province, China(523808)







