



Too hard to beat!

MGC
Machinable
Glass Ceramic
DATASHEET

MGC Machinable Glass Ceramic

ROD MATERIAL

Diameter	Length
10	100
15	100
20	150
25	150
30	150
35	150
40	150
45	150
50	150
60	100
70	100
80	100
90	100
100	100

SHEET MATERIAL

Length	Width	Thickness
50	50	10
50	50	20
100	100	10
100	100	20
200	200	10
200	200	20

SLAB MATERIAL

Length	Width	Thickness
200	200	50
310	110	55

PHYSICAL PROPERTIES

Color	White
Density	2,58 g/cm ³
Porosity	0,09%
Young Modules	65 GPa @ 25°C
Rockwell Hardness A scale	40
Module of rupture	108 MPa
Compressive strength	488 MPa

THERMAL PROPERTIES

Thermal expansion	8,6ppm @ 100-600°C
Thermal conductivity	1,68 W/mk @ 25°C
Maximum temperature	1000°C
Maximum long term temp.	800°C

ELECTRICAL PROPERTIES

Volume resistivity	>10 ¹⁴ Ohm/cm
Dielectric strength	40 KV/mm - AC/DC @ 1 mm
Loss tangent	4x10 ³ @ 1 KHz
Loss tangent	7x10 ³ @ 8,5 KHz

The physical properties stated above result from test pieces. These values can only be used as a reference to other forms and dimensions depending on manufacturing process, geometry, surface finish and machining.

Notes:

1. All sizes are in mm.
2. We also provide machining services according to customers specifications or drawing.

