

Technical Specifications Datasheet

Product Name: Quartz Glass Disc
Product Series: Quartz-Disc1
Disc Thickness: 1mm
Disc Diameter: Minimum - 25mm, Maximum – 100mm
Surface: Both side polished

Thermal Properties:

Thermal Conductivity		1.38(W/M ⁰ k)
Coefficient Of Thermal Expansion		0.55(106/ ⁰ C)
Normal Operating Temperature	Continuous Usage	~1050 ⁰ C
	Non Continuous Usage	~1250 ⁰ C
Strain Point		~1075 ⁰ C
Annealing Point		~1180 ⁰ C
Hot Processing Temperature		~1700 – 2100 ⁰ C
Devitrification Temperature		Starting @ ~1000 ⁰ C, high temperature accelerates devitrification, especially with surface contaminants such as alkaline solution, salts and vapours.

Physical Properties:

Specifications	Units of measure	Value
Density	gm/cc (ib/ft3)	2.2
Surface Roughness	nm	< 5
Porosity	%(%)	0
Tensile strength	106pa	48.3
Young's modulus	108pa	71.7
Hardness	Kg/mm2	600
Thermal conductivity	W/m0K	1.38
Coefficient of thermal expansion	10~6/0C	0.55
Specific heat	J/kg.0k	740
Dielectric strength	Ac-kv/mm (volts/mil)	30
Dielectric constant	@1MHz	3.82
Index of refraction @ 587.6nm	-	1,4585

Techinstro assures the above specification and dimensions of the product as per datasheet. We ensure the quality of the product with moisture proof packing. This sheet is also available on the website, where a researcher or purchaser can also download it merely by clicking on the pdf link. The terms and condition for the product purchase mentioned in the quotation. For safe product storage, tips and procedure provided with the material. For more queries, contact our technical support.