

## Technical Specifications Datasheet

**Product Name: Quartz Glass Plate**  
**Product Series: TIQP5**  
**Plate Thickness: 5mm**

### Thermal Properties:

Thermal Conductivity		1.38(W/M <sup>0</sup> k)
Coefficient Of Thermal Expansion		0.55(106/ <sup>0</sup> C)
Normal Operating Temperature	Continuous Usage	~1050 <sup>0</sup> C
	Non Continuous Usage	~1250 <sup>0</sup> C
Strain Point		~1075 <sup>0</sup> C
Annealing Point		~1180 <sup>0</sup> C
Hot Processing Temperature		~1700 – 2100 <sup>0</sup> C
Devitrification Temperature		Starting @ ~1000 <sup>0</sup> 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

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