

Quartz Labware

Thermal Properties

Thermal Conductivity	1.38(W/m [°] K)	
Coefficient Of t\Thermal Expansion(0~1000°C)	0.55(10 ⁻⁶ /°C)	
Normal Operating Temperature	Continuo us Usage	~1050°C
	Non Continuo us Usage	~1250°C
Strain Point	~1075°C	
Annealing Point	~1180°C	
Hot Pressing Temperature	~1700°C - 2100°C	
Devitrification Temperature	Starting at ~1000° C. high temperature accelerates Devitrification, especially with surface contaminants such as alkaline solution, salts and vapors.	

Physical Properties

	Units of Measure	Value
Density	gm/cc (lb/ft ³)	2.2
Porosity	%(%)	0
Tensible Strength	10 ₆ Pa	48.3
Young's Modulus	10 ₆ Pa	71.7
Hardness	Kg/mm ₂	600
Thermal Conductivity	W/m.K	1.38
Coefficient of Thermal Expansion	10 ⁻⁶ /°C	0.55
Specific Heat	J/Kg.K	740
Dielectric Strength	Ac-kv/mm (volts/mil)	30

Dielectric Constant	@1MHz	3.82
Index of refraction @ 587.6nm	--	1.4585

Transmission

