

Lumistar Special Glass Technology Co., Ltd

Performance parameter table of quartz glass

1.	Main components	99.99% SiO ₂
2.	Material grade	KS
3.	Execution standards	JC/T185-2013 《optical quartz glass》
4.	bending strength	40--60 Mpa
5.	density	2.20-2.23 g/cm ³
6.	Young's modulus	72 Gpa
7.	shear modulus	31--32 Gpa
8.	Bulk modulus	35-38 Gpa
9.	Poisson's ratio	0.17
10.	Knoop Hardness	522kg/mm ²
11.	tensile strength	54 Mpa
12.	compressive strength	11 Gpa
13.	specific heat	772 J/kg.k
14.	thermal conductivity	1.38W/(mk)
15.	Expansion coefficient 0-900 °C	5.4*10 ⁻⁷
16.	Optical transmittance	380--1100nm T≥90% (10mm)
17.	Thermal shock	1000°C Do not explode
18.	level	optical grade
19.	bubble	No bubbles, no transparent impurities, and no opaque impurities
20.	stripe	No visible stripes under UV light irradiation
21.	Stone impurities	No visible stripes under UV light irradiation
22.	Heat resistant temperature	Continued 1000°C
		Short time 1450°C

