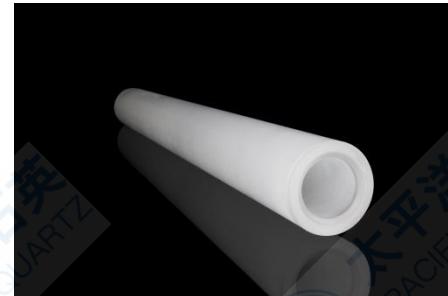




Optical Fiber Quartz Cylinder

I. Application

Optical fiber quartz cylinder is used as the base material for making perform in RIC process



II. Characteristics

Optical fiber quartz cylinder features high purity and low hydroxyl, etc.

III. Code

PQ181FH

IV. Typical Size

OD Range	OD Tolerance	WT Tolerance	Siding	Ovality	Bow
80≤OD<120	±2%	±10%	20%	2%	0.3%
120≤OD<140	±2%	±10%	20%	2%	0.3%
140≤OD<150	±2%	±10%	20%	2%	0.3%
150≤OD<160	±2%	±10%	20%	2%	0.3%

V. Physical & Chemical Properties

i. Trace Elements

Unit: ppm

Code	Criteria	Al	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Na	Ti	Zr
PQ181FH	Typical	8	0.6	<0.05	<0.01	0.1	0.1	0.2	0.05	0.05	0.1	1.3	1
	Maximum	10	1	0.1	<0.01	0.5	0.5	0.5	0.2	0.2	0.5	2	2

ii. OH Content

PQ181FH

OH < 10ppm

iii. Physical Properties

Item	Index Value
Density (g/cm ³)	2.2
Heat Conductivity (w/m·k, 1000°C)	2.28
Coefficient of Thermal Expansion (°C ⁻¹ , 1000°C)	5.5×10 ⁻⁷
Softening Point (°C)	1670
Annealing Point (°C)	1210
Strain Point (°C)	1110

iv. Coefficient of Thermal Expansion & Viscosity

