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UV-Blocked Fused Quartz Glass Tubing

This doped glass can absorb nearly all the radiation of ultraviolet rays of UV-B & UV-C and large proportion of radiation UV-A, but still transparent to visible light. It can serve as the shielding material of halogen lamps, high density discharge lamps and other UV source.

Properties of UV-blocked fused quartz glass

Density (g/cm^3)	2.2
Coefficient of thermal expansion (ppm/°C)	0.56
Softening point (°C)	1630
Annealing point (°C)	1180
Strain point (°C)	1100
Young's modulus (MPa)	0.73

Dimension tolerance of UV-blocked fused quartz glass tubing

OD Range (mm)	OD	WT	Siding	Ovality	Bow (mm) for length of 1.2m
≤ 6	±2.0%	±10%	12%	2.00%	2.5
6 - 15	±1.25%	±8%	10%	1.50%	2.5
15 - 20	±1.25%	±10%	15%	1.50%	2.5
20 - 25	±1.25%	±10%	15%	1.50%	3
25 - 30	±1.35%	±12%	15%	1.50%	3

Impurities in UV-blocked Fused Quartz glass tubing

Elements	Cr	Ge	Fe	Mg	Ti	Ca	Al	Na	Li	K	OH
Concentration (ppm)	20	0.4	1.5	0.4	100	1	16	2.3	0.5	2	<25

Spectral transmission of UV-blocked fused quartz glass (Thickness 1mm)

Wavelength (nm)	<220	230-280	290-330	350	450	550	590	780
Transmission (%)	0	<15	0	15	88	92	93	93

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