

BK7 Schott Glass (BK7)

Custom sizes and specifications are available

OPTICAL

Refractive Index at n_e	1.51872
Refractive Index at n_f	1.52283
Thermal Coefficient of Refractive Index at 0.546 microns for 0/+20 deg C	2.8×10^{-6}
Transmission Range, microns	0.35-2.0

THERMAL

Thermal Linear Expansion, deg C ⁻¹ for -30/+70 deg C	7.1×10^{-6}
Thermal Conductivity, W/(m•deg C)	1.114
Specific Heat Capacity, J/(kg•deg C)	0.858×10^3
Melting Point, deg C	559

MECHANICAL

Density, g/cm ³ at 20 deg C	2.51
Young Modulus (E), Pa	8.1×10^{10}
Poisson Ratio	0.206

Refr. Index n vs. Wavelength λ

WAVELENGTH, MICRONS	REFRACTIVE INDEX
0.365	1.53626
0.4047	1.53024
0.4358	1.52669
0.4800	1.52283
0.4861	1.52238
0.5461	1.51872
0.5876	1.51680
0.5893	1.51673
0.6328	1.51509
0.6438	1.51472
0.6563	1.51432
0.7065	1.51289
0.8521	1.50981
1.0140	1.50731
1.0600	1.50669
1.5296	1.50094
1.9700	1.49500
2.3254	1.48929

Internal Transmittance τ_i (λ) for 5 mm vs. Wavelength λ

WAVELENGTH, MICRONS	INTERNAL TRANSMITTANCE FOR 5mm
0.310	0.59
0.320	0.81
0.350	0.986
0.365	0.994
0.370	0.995
0.380	0.996
0.390	0.998
0.400	0.998
0.420	0.998
0.460	0.999
0.500	0.999
0.700	0.999
1.060	0.999
1.530	0.997
1.970	0.968
2.325	0.89

