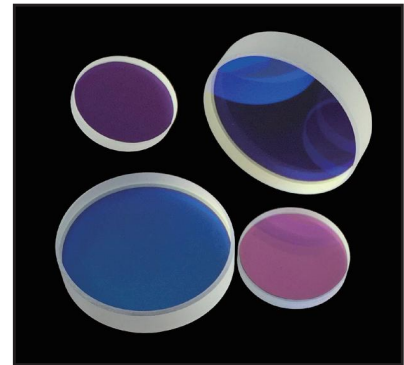


# Windows

Optical windows are used to allow optical radiation to pass from one environment to another without allowing other elements of these environments to mix. And it does not change the wavelength distribution of the beam, the transmitted wavefront, nor does it scatter any of the light out of the beam.

When selecting windows you should consider materials, transmission, scattering, wavefront distortion, parallelism and resistance to certain environment. Windows may also be used as coating substrates for use in a wide range of applications.

Optical windows from a wide selection of materials for VUV-UV-Visible-NIR-IR-FIR are offered to meet various scientific instrument applications include high energy laser optical windows, VUV windows, IR windows, high pressure high temperature chamber view port and simple white float glass windows.

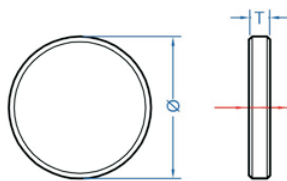
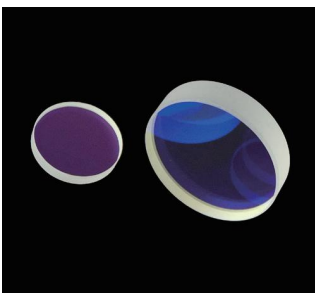


Windows we can supply are listed below

Material	Refractive Index	Transmission Range(um)	Thermal Expansion Coefficient(10 <sup>-6</sup> /K)	Density (g/cm <sup>3</sup> )
Bk7	1.5164@588nm	330-2100nm	7.5	2.52
Fused Silica	1.4858@308nm	185-2500nm	0.58	2.2
Borofloat	1.4713@587.6nm	330-2100nm	3.3×10	2.2
Sapphire	1.755@1000nm	180-4500nm	8.4	3.98
CaF <sub>2</sub>	1.399@5000nm	170-7800nm	18.85	3.18
Silicon	3.426@5000nm	1200-7000nm	2.55	2.33
Germanium	4.003@10000nm	2000-14000nm	5.5	5.33
Znse	4.016@5000nm	2000-12000nm	7.8	5.27

## ► BK 7 Windows

BK7 and N-BK7( a RoHS-compliant form of BK7) are high quality optical glass commonly used for windows, lenses, and prisms where transmission in the range 0.4μm to 1.4μm is desired. It is used for thermally non-critical applications. It has excellent mechanical and optical properties.



General Specifications		
MATERIAL: BK7		
	Standard Grade	High grade
Dimensional tolerance	±0.1mm	±0.05mm
Surface quality	60-40 S/D	10-5 S/D
Parallelism	3 arc min	30 arc sec
Flatness	λ/2@633nm	λ/8@633nm
Bevel	Protective bevel	Protective bevel
Coating	Maf2, BBAR, or other	

Note for BK7 windows:

1. Custom-made BK7 windows at any size from 1.0mm to 300mm clear aperture are available. Besides, round, BK7 windows at shape of quadrate, triangular or other polygonal are available
2. Thickness from 0.5mm to 50.0 mm is available upon request.
3. Better bevel is available upon request.