

# Optical Glass (N-BK7 B270 and others)

## Specialist Data Sheet

Product Name	Optical Glass (N-BK7 B270 and others)
Transmission Range	350nm to 2.5um
Refractive Index	1.51680 @ 587.5618nm (Yellow Helium Line)
Reflection Loss	8.1% at 587.5618nm (2 surfaces)
Absorption Coefficient	n/a
Reststrahlen Peak	n/a
dN/dT	See Schott Table
dN/du	n/a
Density	2.51
Melting Point	557°C (Transformation Temperature)
Thermal Conductivity	1.114 W m <sup>-1</sup> K <sup>-1</sup>
Thermal Expansion	7.1 x 10 <sup>-6</sup> K <sup>-1</sup>
Hardness	Knoop 610
Specific Heat Capacity	858 J Kg <sup>-1</sup> K <sup>-1</sup>
Dialectric Constant	n/a
Youngs Modulus (E)	82 GPa
Shear Modulus (G)	n/a
Bulk Modulus (K)	34 GPa
Elastic Coefficients	n/a
Apparent Elastic Limit	63.5MPa (9206psi)
Poisson Ratio	0.206
Solubility	Insoluble in water
Molecular Weight	n/a
Class/Structure	Amorphous glass

### Notes:

### Application:

N-BK7 is a Schott designation for the most common Borosilicate Crown glass used for a wide variety of visible applications. The basic data here is given for N-BK7. Full optical design data on N-BK7 and other glasses can be found by following the web links at the bottom of this page.



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Transmission Range Graph:



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