N-BK-7

Description:

N-BK-7 is a barium borosilicate glass known for its high transmission and clean, clear appearance. It is a standard by which many other glasses are compared, both optical and non-optical types.

Available Thicknesses, Sizes: N-BK-7 is produced in strips and blocks up to about 14 inches wide and about 2.8" thick. We can fabricate them to any smaller size. Larger strips and sizes are usually available upon request.

Properties:

Refractive Index: n_d ($\lambda = 588 \text{ nm}$) = 1.51680

Mechanical and Thermal:

Density 2.51 g/cm 3 Thermal Coefficient of Expansion (20-300°C) 83 x 10 $^{-7}$ /°C Softening Point 719°C Microhardness (HK $_{0.1/20}$) 610

Internal Transmittance: (@ 5 mm thick)

310 nm 59% 335 nm 95% 365-1529 nm 99%+ 2325 nm 89%

Chemical:

Climatic ResistanceClass 2Stain ResistanceClass 0Acid ResistanceClass 1Alkali Resistance2.0Phosphate Resistance2.3

Applications:

Optical substrates, image-forming optics, electronics, laboratory and coating substrates.

Flatness, parallelism, cutting tolerances, roughness, cosmetic defects and visual inspection all conform to the specifications to be agreed upon by Precision Glass & Optics and the customer.



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