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BK-7 (Schott)

DESCRIPTION: 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.

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

AVAILABLE THICKNESSES / SIZES: BK-7 is produced in strips and blocks up to about 14" 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 $n_d (\lambda = 588 \text{ nm}) = 1.51680$

Internal Transmission at 5 mm thick 310 nm 59% 335 nm 95% 365-1529 nm 99%+ 2325 nm 89%

Mechanical and Thermal

Density: 2.39 Thermal Coefficient of Expansion (20-300°C) = $83 \times 10^{-7} \text{ K}^{-1}$ Melting Point: 532°C Microhardness: 610
g/cm³

Chemical Climatic Resistance Stain Resistance Acid Resistance Alkali Resistance Phosphate Resistance
Class 2 Class 0 Class 1 2.0 2.3

Electrical Dielectric Constant: E = 7 Dielectric Loss Factor: $\tan \delta = 30 \times 10^{-4}$