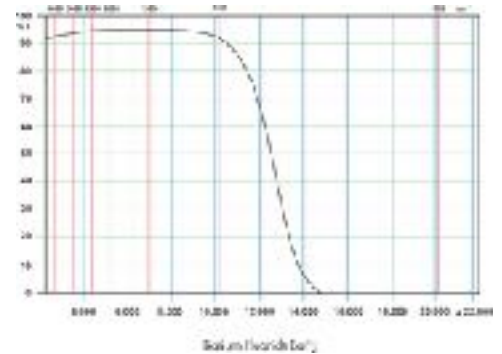


Optical Material Barium Fluoride (BaF₂) Optical Crystals

Barium Fluoride (BaF₂) is commonly used as a scintillator material and is useful as a transmission window material for IR spectroscopy particularly for analysis of fuel oil samples. This material is extremely sensitive to thermal shock.

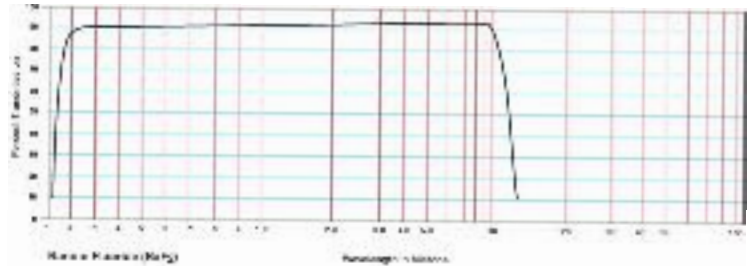
Optical Properties – Barium Fluoride (BaF₂) Optical Crystals

Transmission Range: 150nm to 11.5µm
Refractive Index: 1.46 @ 3.2 µm
Reflection Loss: 6.8% @ 3.0µm (2 surfaces)



Physical Properties - Barium Fluoride (BaF₂) Optical Crystals

Melting Point: 1280° C
Hardness (Knoop): 82 psi
Young's Modulus: 53.07 GPa
Modulus of Rupture: 3900 psi
Structure: Cubic---111 cleavage plane



Chemical Properties-- Barium Fluoride (BaF₂) Optical Crystals

Solubility: 0.17gm./100 gm water @ 23° C. Soluble in acid and NH₄Cl

International Crystal Laboratories
11 Erie Street, Garfield, NJ
973-478-8944 www.internationalcrystal.net
Em: iclmail@internationalcrystal.net



future in focus...