

**Bariumfluorid
für UV, VIS und IR-Bereich**

**Barium Fluoride
for UV, VIS and IR-range**

Formula	BaF ₂					
Growth method	Stockbarger technique					
Max. sizes, (mm)	Ø150					
Transmission range, (µm) (Thickness 10 mm)	0.18 - 12.0					
Structure	cubic					
Density (g/cm ³)	4.83					
Melting point (°C)	1354					
Hardness (Mohs)	3					
Thermal expansion coefficient (10 ⁻⁶ /K)	16.5-19.2					
Thermal conductivity (W m ⁻¹ K ⁻¹)	7.1					
Specific heat capacity (J kg ⁻¹ K ⁻¹)	456					
Solubility in water (g/100 cm ³)	0.17					
Solubility in acids	soluble					
Solubility in organic solvents	undeclared					
Wavelength (µm)	0.2	0.5	1.0	5.0	10.0	12.0
Refractive index	1.5573	1.4779	1.4686	1.4511	1.4014	1.3696
Absorption coefficient (cm ⁻¹)	0.20 at 0.2 µm 0.08 at 0.4 µm 0.13 at 10.6 µm					

Transmission spectrum:

