

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

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

Formula	LiF					
Growth method	Stockbarger technique					
Max. sizes, (mm)	Ø150					
Transmission range, (µm) (Thickness 10 mm)	0.12 - 6.5					
Structure	cubic					
Density (g/cm <sup>3</sup> )	2.60					
Melting point (°C)	870					
Hardness (Mohs)	4					
Thermal expansion coefficient (10 <sup>-6</sup> /K)	28.1 - 34.8					
Thermal conductivity (W m <sup>-1</sup> K <sup>-1</sup> )	14.2					
Specific heat capacity (J kg <sup>-1</sup> K <sup>-1</sup> )	1562					
Solubility in water (g/100 cm <sup>3</sup> )	0.27					
Solubility in acids	soluble					
Solubility in organic solvents	insoluble in acetone and ethylalcohol					
Wavelength (µm)	0.2	0.5	1.0	3.0	5.0	6.0
Refractive index	1.4390	1.3943	1.3871	1.3666	1.3266	1.2975
Absorption coefficient (cm <sup>-1</sup> )	0.05 at 0.2 µm 0.02 at 0.4 µm 0.03 at 2.6 - 2.9 µm					

Transmission spectrum:

