

DATA SHEET

Lithium Fluoride (LiF) DUV Grade

Optical Properties

Transmission Range	0.11-7 μ m
Transmittance	>94.8% @ 0.6 μ m
Reflection Loss	5.2% @ 0.6 μ m (both surfaces)
Absorption Coefficient	5.9×10^{-3} @ 4.3 μ m
Structure	Cubic Crystal System
Cleavage Planes	<100>

Physical Properties

Density [g/cm ³]	2.639
Melting Point [°C]	848
Thermal Conductivity [W/(m×K)]	11.3 @ 314K
Thermal Expansion [10 ⁻⁶ /K]	37.0 @ 283K
Knoop Hardness [kg/mm ²]	415
Specific Heat Capacity [J/(kg×K)]	1562
Dielectric Constant	7.33 @ 1 MHz
Young's Modulus (E) [GPa]	64.79
Shear Modulus (G) [GPa]	55.14
Bulk Modulus (K) [GPa]	62.03
Poisson Coefficient	0.22

Chemical Properties

Solubility / g/L	2.7g @ 20°C
Molecular Weight / g/mol	25.9394

