

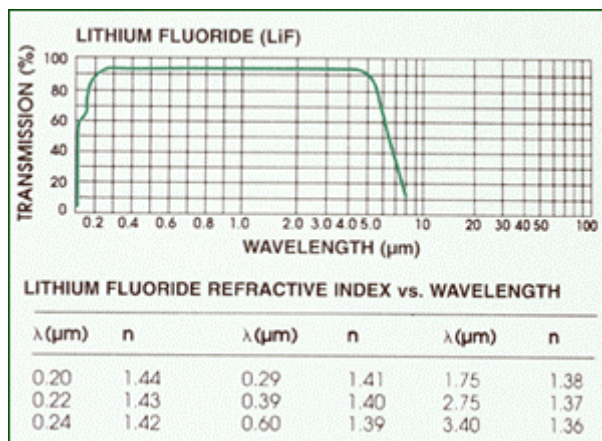
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LITHIUM FLUORIDE - LiF

This material is used for the manufacture of optical windows, lenses, prisms, x-ray monochromator plates, and refracting components in the vacuum ultraviolet, visible and infrared. Lithium Fluoride is attacked by atmospheric moisture and is sensitive to thermal shock.

Transmission Range	0.11 - 9.0 μ
Crystal Structure	Rock Salt
Cleavage Plane	100
Colour	Colourless
Density	2.639 (25°)
Melting Point (°)	848
Reflection Loss	4.4% (4 μ) for 2 surfaces
Solubility index	0.27gm/100gm water 20°C
Hardness (Knoop)	102 - 113
Thermal Conductivity (cal/cm sec°C)	2.7×10^{-2} (41°C)
Thermal Expansion coefficient (/°C)	37×10^{-6} (0-100°C)



Whilst every effort has been made to verify the data provided, no responsibility can be accepted for its accuracy