

- [Main Page](#)
- [About us](#)
- [quote request](#)
- [products](#)
- [Contact us](#)

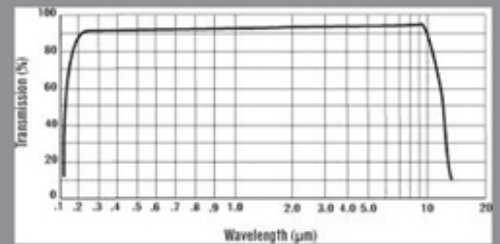


uv grade ultra-pure lif single crystal!



lithium fluoride: uv mono-crystal and ir poly-crystal

Lithium Fluoride (LiF) is commonly used for optical components (windows, wedge windows, lenses, prisms) in a wide spectrum band from vacuum ultra-violet to infrared and is transparent over the entire range of 0.140 μm to 7 μm . LiF crystals are optically isotropic, middle hard and unsoluble in water. However, precautions must be taken against environmental moisture at 400°C (completely softens at 600°C) and high-radiation damage sensitive to thermal shock. Its refractive index is the lowest out of all common infrared materials. We offer Czochralsky and Bridgman growth methods in (100) and (110) orientations. Asphera has a wide range of capabilities keeping degrees of orientation, dimension tolerances, surface quality and parallelism at impressive precision. We have over ten years experience with micro-windows 2-3 mm dimensions in thickness as low as 0.5 mm up to large 50-300 mm UV Single Crystal windows and specialize in technological developments of LiF.



materials

UV Single Crystal (Ultra-Pure)
IR Polycrystal

orientation

(100), (110)

dimension tolerance

up to ± 0.02 mm

surface quality

20/10

parallelism

2 minute

o

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- info@asphera.net
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