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TECHSPEC® 25.4mm Dia., 1mm Thick, Uncoated, Lithium Fluoride (LiF) Window



Lithium Fluoride (LiF) Windows

Stock **#16-805** **4 In Stock**

⊖ 1 ⊕ €380⁰⁰

ADD TO CART

Volume Pricing

Qty 1-10	€380,00 each
Qty 11-25	€343,00 each
Qty 26-49	€323,00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Protective Window **Type:**

Crystal **Type of Window:**

Physical & Mechanical Properties

Clear Aperture CA (mm):

21.59

25.40 +0.00/-0.13 **Diameter (mm):**

1.00 ±0.13 **Thickness (mm):**

<3 **Parallelism (arcmin):**

Protective as needed **Bevel:**

85 **Clear Aperture (%):**

Fine Ground **Edges:**

0.33 **Poisson's Ratio:**

64.97 **Young's Modulus (GPa):**

102.00 **Knoop Hardness (kg/mm²):**

Optical Properties

Uncoated **Coating:**

Lithium Fluoride (LiF) **Substrate:**

1.392 @0.6µm **Index of Refraction (n_d):**

60-40 **Surface Quality:**

97.29 **Abbe Number (v_d):**

Random **Axis Orientation:**

150 - 6000 **Wavelength Range (nm):**

2λ@632.8nm **Surface Flatness (P-V):**

Material Properties

2.64 **Density (g/cm³):**

37 **Coefficient of Thermal Expansion CTE (10⁻⁶/°C):**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

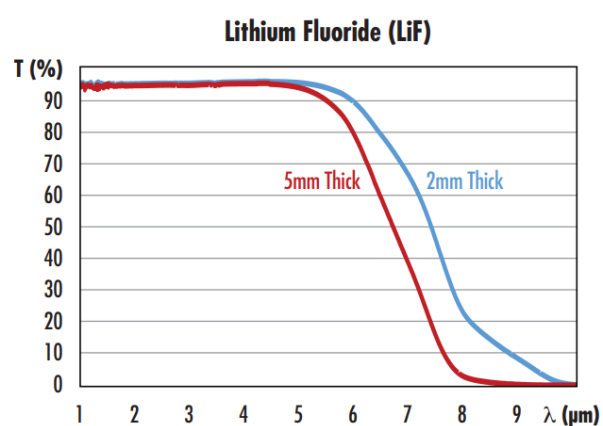
Product Details

- High Transmission from 150nm - 6µm
- Excellent Vacuum UV (VUV) Transmission
- Low Index of Refraction

Lithium Fluoride (LiF) Windows provide high, flat transmission from 150nm to 6µm. Lithium fluoride has excellent transmission in the vacuum ultraviolet (VUV) wavelength range of 150 - 200nm. Lithium fluoride also has a low index of refraction, allowing these windows to be used without an anti-reflection (AR) coating. Lithium Fluoride (LiF) Windows are ideal for use as UV transmission windows in spectroscopy applications, as a diffracting element in X-ray spectrometry, or as infrared windows for thermal imaging applications.

Note: Lithium fluoride is sensitive to thermal shock and is attacked by atmospheric moisture at temperatures above 400°C.

Technical Information



Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools
