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TECHSPEC® 50mm Dia., 3mm Thick, Uncoated, Lithium Fluoride (LiF) Window



Lithium Fluoride (LiF) Windows

Stock **#19-729** **5 In Stock**

⊖ 1 ⊕ C\$1,176⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-10	C\$1,176.00 each
Qty 11-25	C\$1,057.00 each
Qty 26-49	C\$1,001.00 each
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Product Downloads

General

Protective Window **Type:**
Crystal **Type of Window:**

Physical & Mechanical Properties

45.00 **Clear Aperture CA (mm):**

50.00 +0.00/-0.10	Diameter (mm):
3.00 ±0.10	Thickness (mm):
<3	Parallelism (arcmin):
Protective as needed	Bevel:
90	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: <input type="checkbox"/>
1.392	Index of Refraction (n_d):
60-40	Surface Quality:
97.29	Abbe Number (v_d):
Random	Axis Orientation:
150 - 6000	Wavelength Range (nm):
1λ @ 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:
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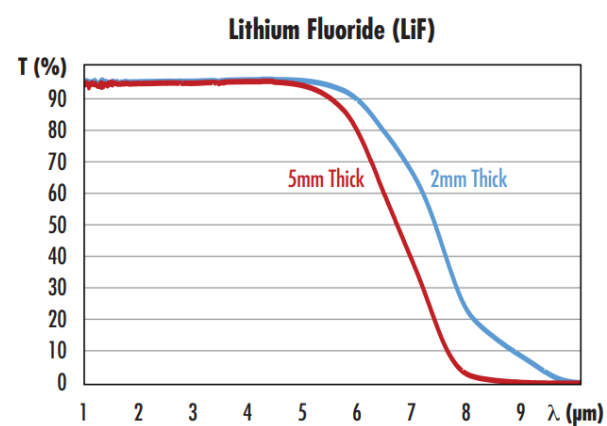
Product Details

- 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

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