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TECHSPEC® 12.7mm Dia., 1mm Thick, Uncoated, Lithium Fluoride (LiF) Window



Lithium Fluoride (LiF) Windows

Stock **#16-804** **2 In Stock**

⊖ 1 ⊕ €233.⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-10	€233,00 each
Qty 11-25	€210,00 each
Qty 26-49	€198,00 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):

10.80	Diameter (mm):
12.70 +0.00/-0.13	
	Thickness (mm):
1.00 ±0.13	
	Parallelism (arcmin):
<3	
	Bevel:
Protective as needed	
	Clear Aperture (%):
85	
	Edges:
Fine Ground	
	Poisson's Ratio:
0.33	
	Young's Modulus (GPa):
64.97	
	Knoop Hardness (kg/mm²):
102.00	

Optical Properties

	Coating:
Uncoated	
	Substrate: <input type="checkbox"/>
Lithium Fluoride (LiF)	
	Index of Refraction (n_d):
1.392 @ 0.6μm	
	Surface Quality:
60-40	
	Abbe Number (v_d):
97.29	
	Axis Orientation:
Random	
	Wavelength Range (nm):
150 - 6000	
	Surface Flatness (P-V):
2λ @ 632.8nm	

Material Properties

	Density (g/cm³):
2.64	
	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):
37	

Regulatory Compliance

View	Certificate of Conformance:
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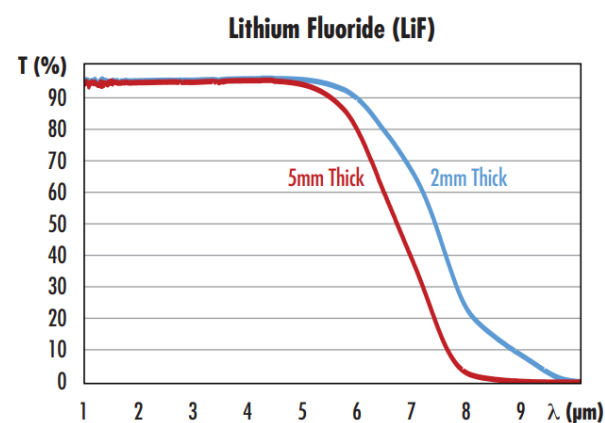
Product Details

- 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
