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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 ⊕ €840<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-10	€840,00 each
Qty 11-25	€755,00 each
Qty 26-49	€715,00 each
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ⓘ 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):

45.00	<b>Diameter (mm):</b>
50.00 +0.00/-0.10	
	<b>Thickness (mm):</b>
3.00 ±0.10	
	<b>Parallelism (arcmin):</b>
<3	
	<b>Bevel:</b>
Protective as needed	
	<b>Clear Aperture (%):</b>
90	
	<b>Edges:</b>
Fine Ground	
	<b>Poisson's Ratio:</b>
0.33	
	<b>Young's Modulus (GPa):</b>
64.97	
	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>
102.00	

## Optical Properties

	<b>Coating:</b>
Uncoated	
	<b>Substrate:</b> <input type="checkbox"/>
Lithium Fluoride (LiF)	
	<b>Index of Refraction (n<sub>d</sub>):</b>
1.392	
	<b>Surface Quality:</b>
60-40	
	<b>Abbe Number (v<sub>d</sub>):</b>
97.29	
	<b>Axis Orientation:</b>
Random	
	<b>Wavelength Range (nm):</b>
150 - 6000	
	<b>Surface Flatness (P-V):</b>
1λ@632.8nm	

## Material Properties

	<b>Density (g/cm<sup>3</sup>):</b>
2.64	
	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>
37	

## Regulatory Compliance

<a href="#">View</a>	<b>Certificate of Conformance:</b>
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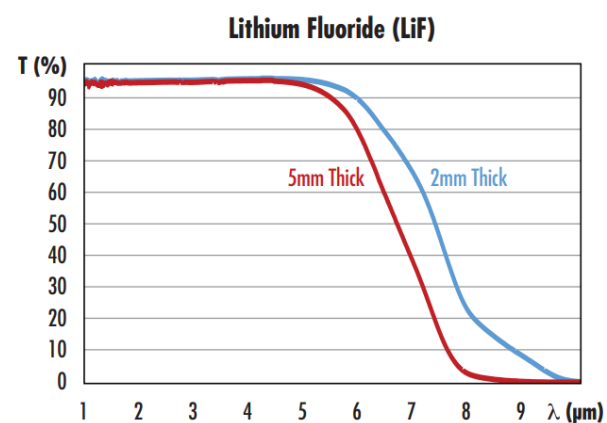
## Product Details

- 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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