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TECHSPEC® 20mm Dia., 2mm Thick, Uncoated, Lithium Fluoride (LiF) Window



Lithium Fluoride (LiF) Windows

Stock **#19-727** **5 In Stock**

⊖ 1 ⊕ €323.⁰⁰

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-10 | €323,00 each |
| Qty 11-25 | €292,00 each |
| Qty 26-49 | €275,00 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):

| | |
|----------------------|--|
| 18.00 | Diameter (mm): |
| 20.00 +0.00/-0.10 | |
| | Thickness (mm): |
| 2.00 ±0.10 | |
| | Parallelism (arcmin): |
| <3 | |
| | Bevel: |
| Protective as needed | |
| | Clear Aperture (%): |
| 90 | |
| | 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 | |
| | Surface Quality: |
| 60-40 | |
| | Abbe Number (v_d): |
| 97.29 | |
| | Axis Orientation: |
| Random | |
| | Wavelength Range (nm): |
| 150 - 6000 | |
| | Surface Flatness (P-V): |
| λ/2 @ 632.8nm | |

Material Properties

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

Regulatory Compliance

| | |
|----------------------|------------------------------------|
| View | Certificate of Conformance: |
|----------------------|------------------------------------|

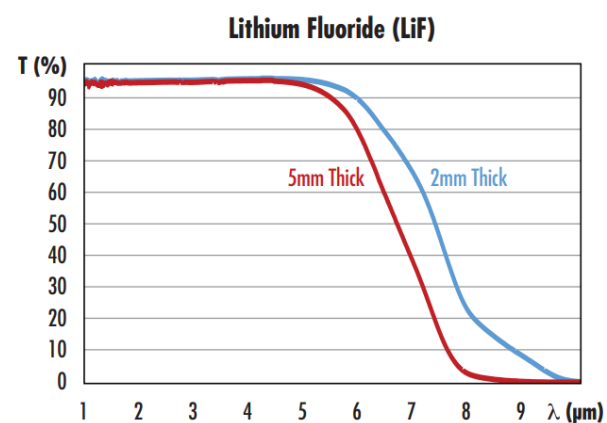
Product Details

- 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
