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25.4mm Dia. x 1000mm FL, Uncoated, ISP Optics Barium Fluoride (BaF₂) PCX Lens | BF-PX-25-1000

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Stock **#24-753** **CLEARANCE** **3 In Stock**

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1

+

C\$331^{.80}

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Volume Pricing	
Qty 1-9	C\$331.80 each
Qty 10+	C\$298.20 each
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General	
Plano-Convex Lens	Type:
BF-PX-25-1000	Model Number:

Physical & Mechanical Properties	
25.40 +0.00/-0.13	Diameter (mm):
<3	Centering (arcmin):
2.20 ±0.20	Center Thickness CT (mm):
2.00	Edge Thickness ET (mm):
22.86	Clear Aperture CA (mm):
Protective as needed	Bevel:
Optical Properties	
1,000.00 @ 5µm	Effective Focal Length EFL (mm):
Uncoated	Coating:
Barium Fluoride (BaF ₂)	Substrate: □
60-40	Surface Quality:
λ	Irregularity (P-V) @ 632.8nm:
±2	Focal Length Tolerance (%):
449.50	Radius R ₁ (mm):
39.37	f/#:
0.01	Numerical Aperture NA:
200 - 12000	Wavelength Range (nm):

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

Product Details

- Excellent Transmission from 0.2 - 12µm
- Provides High Transmission without AR Coatings
- 25 – 500mm Focal Lengths Available

ISP Optics Barium Fluoride (BaF₂) Plano-Convex (PCX) Lenses are ideal for collecting and focusing light in ultraviolet, visible, and infrared applications. Barium Fluoride has similar physical properties to Calcium Fluoride, but provides a higher resistance to high-energy radiation. However, it is less resistant to water and prolonged exposure to moisture can degrade transmission in the ultraviolet range. ISP Optics Barium Fluoride (BaF₂) Plano-Convex (PCX) Lenses feature a low index of refraction that enables excellent transmission from 0.2- 12µm without the need for Anti-Reflection (AR) coatings. These lenses are available in standard imperial sizes with focal length options from 25 – 500mm.

Note: These lenses are very sensitive to thermal shock.

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