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25.4mm Dia., 4mm Thick, Uncoated, ISP Optics Thallium Bromiodide (KRS-5) Window | K5-W-25-4

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Thallium Bromiodide (KRS-5) Windows

Stock #24-604 **CLEARANCE** **2 In Stock**

⊖ 1 ⊕ £660.⁰⁰

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Product Downloads

General

K5-W-25-4 **Model Number:**

Protective Window **Type:**

Crystal **Type of Window:**

Physical & Mechanical Properties

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

25.40 +0.00/-0.13 **Diameter (mm):**

4.00 ±0.13 **Thickness (mm):**

<3 **Parallelism (arcmin):**

Protective as needed **Bevel:**

85 **Clear Aperture (%):**

Fine Ground **Edges:**

0.37 **Poisson's Ratio:**

31 **Young's Modulus (GPa):**

40.20 **Knoop Hardness (kg/mm²):**

Optical Properties

Uncoated **Coating:**

[Thallium Bromoiodide \(KRS-5\)](#) **Substrate:**

2.45 @ 1µm 2.38 @ 4µm 2.37 @ 10µm 2.21 @ 40µm **Index of Refraction (n_d):**

60-40 **Surface Quality:**

700 - 40000 **Wavelength Range (nm):**

λ/10 @ 10.6µm **Surface Flatness (P-V):**

Material Properties

7.37 **Density (g/cm³):**

6.0 **Coefficient of Thermal Expansion CTE (10⁻⁶/°C):**

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 240:**

Product Details

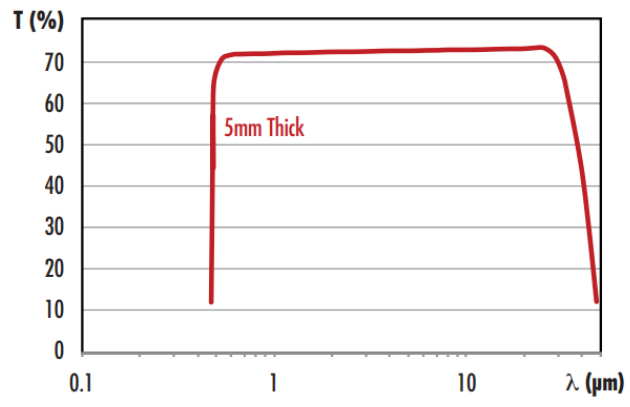
- Broad Transmission from 700nm - 40µm
- Non-Hygroscopic
- Ideal for FTIR Spectroscopy with Aqueous Samples

ISP Optics Thallium Bromoiodide (KRS-5) Windows provide flat transmission across the broad wavelength range of 700nm - 40µm. KRS-5 is non-hygroscopic and relatively insoluble in water, allowing for its use in FTIR spectroscopy as liquid cell windows for the analysis of aqueous samples. These windows also have good chemical resistance except against strong acids. ISP Optics Thallium Bromoiodide (KRS-5) Windows are ideal for use in FTIR spectroscopy, as protective windows for acid-sensitive or hygroscopic optics, or as substrates for infrared holographic polarizers.

Note: Thallium bromoiodide (KRS-5) is a toxic material that can be absorbed through the skin. Gloves must be worn while handling this material. KRS-5 has a tendency to cold flow and the shape of these optics may change over time.

Technical Information

Thallium Bromoiodide (KRS-5)



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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