

GLOBAL OPTICS (UK) LTD

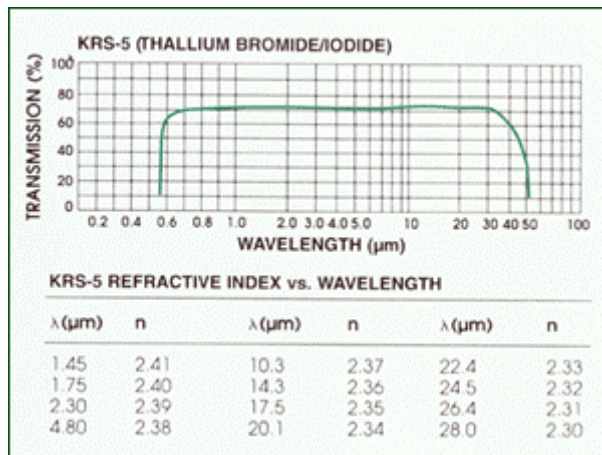
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KRS-5 (THALLIUM BROMIDE/IODIDE)

Used for ATR (attenuated total reflection) prisms, infrared windows and lenses from 0.6-40 microns. KRS-5 is only slightly soluble in water but can be attacked by some solvents and acids. This material is relatively soft and care should be taken during handling and processing.

Caution: Thallium compounds are classified as toxic and must be handled with care.

Transmission Range	0.6 - 40.0 μ
Crystal Structure	Caesium chloride
Cleavage Plane	None
Colour	Deep Red
Density	7.371 (16°)
Melting Point (°)	414.5
Reflection Loss	28.4% (10 μ) for 2 surfaces
Solubility index	0.02gm/100gm water / 10°C
Hardness (Knoop)	40.2
Thermal Conductivity (cal/cm sec°C)	1.3×10^{-3} (20°C)
Thermal Expansion coefficient (/°C)	58×10^{-6} (20-100°C)



Whilst every effort has been made to verify the data provided, no responsibility can be accepted for its accuracy

