

Mateck Thallium Bromiodide TIBr-TII (KRS-5)

Category : Ceramic , Halide

Material Notes:

Optical crystals

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mateck-Thallium-Bromiodide-TIBr-TII-KRS-5.php

Physical Properties	Metric	English	Comments
Density	7.371 g/cc	0.2663 lb/in ³	
Solubility	0.050 ppm	0.050 ppm	
a Lattice Constant	0.4125 Å	0.4125 Å	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	350	350	MPa
Modulus of Elasticity	31.0 GPa	4500 ksi	
Poissons Ratio	0.37	0.37	
Shear Modulus	12.0 GPa	1740 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	6.00 µm/m-°C	3.33 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	0.151 J/g-°C	0.0361 BTU/lb-°F	
Thermal Conductivity	0.540 W/m-K	3.75 BTU-in/hr-ft ² -°F	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Melting Point	414.5 °C	778.1 °F	

Optical Properties	Metric	English	Comments
Refractive Index	2.37	2.37	at n10.0
	2.21	2.21	
	@Wavelength 40000 nm	@Wavelength 40000 nm	
	2.29	2.29	
	@Wavelength 30000	@Wavelength 30000	

Optical Properties	^{nm} Metric	^{nm} English	Comments
	2.38	2.38	
	@Wavelength 4000 nm	@Wavelength 4000 nm	
	2.60	2.60	
	@Wavelength 600 nm	@Wavelength 600 nm	
Transmission, Visible	10 %	10 %	Internal Transmittance
	@Wavelength 650 nm	@Wavelength 650 nm	
	70 %	70 %	Internal Transmittance
	@Wavelength 670 nm	@Wavelength 670 nm	
IR Transmittance	10 %	10 %	Internal Transmittance
	@Wavelength 50000 nm	@Wavelength 50000 nm	
	72 %	72 %	Internal Transmittance
	@Wavelength 25000 nm	@Wavelength 25000 nm	

Descriptive Properties	Value	Comments
Symmetry Class	m3m Pm3m	
Syngony	cubic	
Transmission Range (microns)	0.6 - 40	

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