

Mateck Laser Grade Zinc Selenide, ZnSe CVD

Category : Ceramic , Sulfide/Chalcogenide , Other Engineering Material , Semiconductor

Material Notes:

Optical Crystals

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mateck-Laser-Grade-Zinc-Selenide-ZnSe-CVD.php

Physical Properties	Metric	English	Comments
Density	5.27 g/cc	0.190 lb/in ³	
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Solubility	0.00 ppm	0.00 ppm	
Molecular Weight	144.33 g/mol	144.33 g/mol	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	820	820	MPa
Hardness, Mohs	4.0	4.0	
Modulus of Elasticity	70.3 GPa	10200 ksi	
Poissons Ratio	0.28	0.28	
Shear Modulus	27.5 GPa	3990 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	7.57 Âµm/m-Â°C	4.21 Âµin/in-Â°F	
Specific Heat Capacity	0.339 J/g-Â°C	0.0810 BTU/lb-Â°F	
Thermal Conductivity	16.0 W/m-K	111 BTU-in/hr-ft ² -Â°F	
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	

Optical Properties	Metric	English	Comments
Refractive Index	2.4028	2.4028	at n10.6
	2.3448	2.3448	
	@Wavelength 17000 nm	@Wavelength 17000 nm	
	2.4295	2.4295	

Optical Properties	Metric	English	Comments
	@Wavelength 5000 nm	@Wavelength 5000 nm	
	2.4892	2.4892	
	@Wavelength 1000 nm	@Wavelength 1000 nm	
	2.6754	2.6754	
	@Wavelength 580 nm	@Wavelength 580 nm	

Descriptive Properties	Value	Comments
Symmetry Class	43m	
Syngony	cubic	
Thermal Coefficient of Refractive Index	6.1E-05	
Transmission Range (microns)	0.55 - 20	

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