

Mateck Zinc Selenide, ZnSe

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

Material Notes:

Semiconductor single crystals. Twins and stacking faults twin free.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
a Lattice Constant	5.6687 Å	5.6687 Å	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0500 - 1.00e+6 ohm-cm	0.0500 - 1.00e+6 ohm-cm	doped
	1.00e+8 - 1.00e+12 ohm-cm	1.00e+8 - 1.00e+12 ohm-cm	undoped
Hole Mobility, cm ² /V-s	400	400	

Descriptive Properties	Value	Comments
Crystal Axis	(111) or (100)	
Density of low angle boundaries (cm ⁻¹), max	2	
EPD (cm ⁻²), MAX	100000	
	5000	
Orientation	(100); (110); (111)	
Orientation Accuracy (°), Max	1	
Polishing	chemical mechanical polishing	
	one side or both sides polished	
	optical polishing	
Production Method	Markov	
Standard Size (mm)	10 x 10 x 0.5 or 1	
	5 x 5 x 0.5 or 1	
Structure	cubic	
Tolerance of Diameter (mm)	0.000 / -0.100	

Descriptive Properties	Value	Comments
Tolerance of Thickness (mm)	0.05	

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