

Mateck Lanthanum Aluminate Substrate, LaAlO₃ rhombohedral

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Substrate single crystals for superconductivity

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mateck-Lanthanum-Aluminate-Substrate-LaAlO3-rhombohedral.php

Physical Properties	Metric	English	Comments
Density	6.51 g/cc	0.235 lb/in ³	
a Lattice Constant	3.79 Å...	3.79 Å...	
c Lattice Constant	13.11 Å...	13.11 Å...	

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 Åµm/m-Å°C	5.56 Åµin/in-Å°F	
Melting Point	2180 Å°C	3960 Å°F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	20 - 25	20 - 25	
	24.5	24.5	

Descriptive Properties	Value	Comments
Growth Techniques	Czochralski	
Orientation	(100)	
Orientation Accuracy (Å°), Max	0.5	
Parallelness (Å°), max	0.02	
Phase Transition Temperature (K)	min 500	
Polishing	standard: one side	
Production Method	sim. Verneuil grown (with minimum twins)	
Roughness of surface (angstroms), max	150	
Scratches	none	
Standard Size (mm)	10 x 10 x 1 or 0.5	

State

Descriptive Properties	monocrystalline Value	Comments
Structure	rhombohedral	
Surface Quality	with light microscope without defects	
Tolerance of Length (mm)	Â± 0.05	
Tolerance of Thickness (mm)	Â± 0.02	

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