

Lithiumniobat  
für VIS und IR-Bereich

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for VIS and IR-range

Formula	LiNbO <sub>3</sub>		
Growth method	Czochralski method		
Max. sizes	Ø76.2 mm		
Transmission range, µm (Thickness 1 mm)	0.4 – 5.0		
Structure	Trigonal		
Density (g/cm <sup>3</sup> )	4.64		
Melting point (°C)	1253		
Hardness (Mohs)	5		
Thermal expansion coefficient (10 <sup>-6</sup> /K)	parallel c-axis: 2.2 parallel a-axis: 2.0		
Thermal conductivity (W m <sup>-1</sup> K <sup>-1</sup> )	38		
Thermal optical coefficient (10 <sup>-6</sup> /K)	dn <sub>o</sub> /dT: -0.87 dn <sub>e</sub> /dT: 39.07		
Wavelength (µm)	0.633	1.064	1.30
Refractive index n <sub>o</sub>	2.286	2.232	2.220
n <sub>e</sub>	2.203	2.156	2.146
Absorptions coefficient (cm <sup>-1</sup> )	0,1 at 1.064 µm		

Transmission spectrum:

Transmission, %

