

LaAlO₃
for Research and Development



CrysTec

KRISTALLTECHNOLOGIE

Growth Method:	Czochralski
Crystal Structure:	pseudocubic, with micro twins parallel (100)
Density (25°C):	6.51 g/cm ³
Lattice Constant:	a = 0,3821 nm
Colour:	colourless to pale pink

Physical Properties:	
Melting Point:	2380 K
Hardness:	6.0 (Mohs)
Thermal Conductivity:	10 W/m K (100°C)
Thermal Expansion:	10 x 10 ⁻⁶ K ⁻¹
Dielectric Constant:	~23,5
Loss Tangent	6 x 10 ⁻⁵ (77 K, 10 GHz)
Refractive Index	n = 2.0
Absorbtion Coef.	0.55 mm ⁻¹

Orientation:	(100), (110), (111)
Standard Size:	1", 2", 3", 10 x 10 mm ²
Standard Thickness:	0.5 mm, 1 mm
Surface:	one- or both side epipolished

► For further information please feel free to ask.