

LSAT – Lanthanum Aluminate – Strontium Aluminium Tantalate

Formula	La _{0.26} Sr _{0.76} Al _{10.61} Ta _{0.37} O ₃
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CRYSTAL GROWTH

Growth Method	Czochralski
Max. Diameter (inch)	Ø2"
Growth Direction	[100]

CRYSTALLOGRAPHIC PROPERTIES

Crystal Structure	pseudocubic
Lattice Constant (nm)	$a = 0.3868$ without twins

PHYSICAL PROPERTIES

Color	colorless to light yellow
Density (g/cm³)	6.74
Melting Point (K)	2113
Thermal Expansion (10⁻⁶K⁻¹)	10
Dielectric Constant	22
Loss Tangent (@ 77K, 10GHz)	2×10^{-4}

