

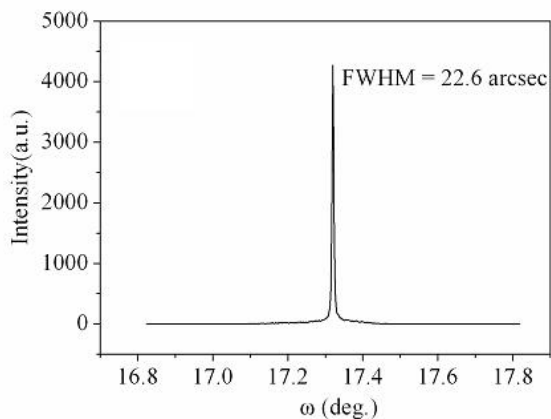
# LiAlO<sub>2</sub> Crystal

## A new crystal substrate for III-V Nitride films

LiAlO<sub>2</sub> is a potential substrate for III-V nitride thin films due to its excellent lattice mismatch to GaN ( <0.2% at <100> ), chemical stability at high temperature and cost effective. MTI can supply LiAlO<sub>2</sub> wafer up to 2" in diameter

	Typical Physical Properties
Crystal Structure	Tetragonal     a=5.17 Å   c=6.26 Å
Growth Method	CZ
Density	2.2 g/cm <sup>3</sup>
Melt Point	1900 °C
Hardness	7.5 (Mohs)
Color and Appearance	Transparent
As - grown boule <100> ori.	2" in diameter. x 4" in length
Typical rocking curve	FWHM < 23"

*Special size and orientation are available upon request*



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