

Crystal Material Datasheet

Lutetium Yttrium Silicate

LYSO(Ce)

Properties	Value
Cleavage Planes	None
Decay Constant (ns)	40
Density (g.cm-3)	7.1
Emission Spectral Range (nm)	380-480
Gamma and X-ray absorption coefficients (cm-1)	
Melting Point (K)	2323
Peak Scintillation Wavelength (nm)	420
Photons/MeV	32000
Radiation Length (cm)	1.15
Refractive Index at peak emission	1.81
Solubility (g/100g H ₂ O @ 300K)	Insoluble
Stability	Good
Structure	Cubic
Thermal Conductivity (W·m-1·K-1) @ 300K	
Transmission Range (nm)	

Information:

A non-hygroscopic scintillator that is both bright and fast. Finds application where fast timing is needed such as PET and TOF PET.

Contact us:

