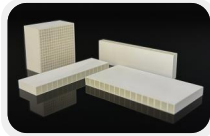
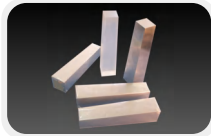
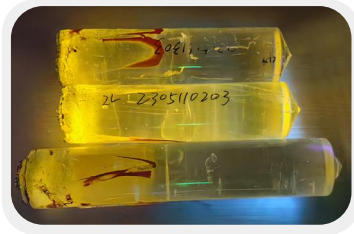


CsI(Tl) Scintillator



Basic Information

- Growth technique: Bridgman
- Dimension(max): $\varnothing$ 120 mm x 400 mm
- Achieved items: single crystals, linear and 2 dimensional array

Thallium doped cesium iodide, CsI(Tl), has a light output of 60,000 photons/MeV and is one of the brightest scintillators known. With its emission peak is at 550 nm and well suited for SiPD or SiPM readout, CsI(Tl) has been used widely in security inspection, homeland protection and custom border protection.

General Properties

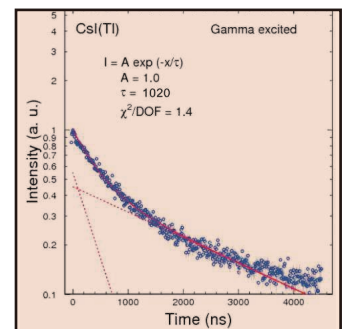
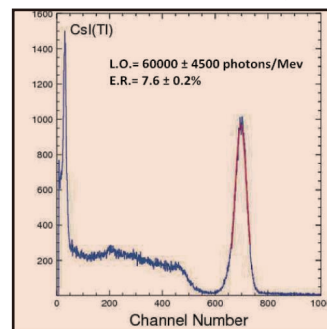
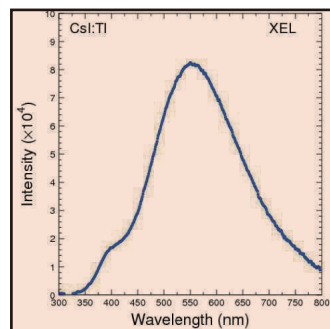
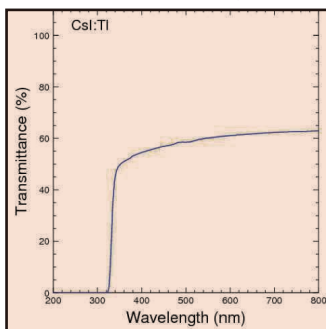
Density(g/cm ³)	4.51
Melting point(K)	894
Wavelength of emission peak(nm)	550
Light output(Photons/Mev)	60,000
Decay time(ns)	1,020
Cleavage plane	No
Hygroscopic	Slightly
Refractive index	1.79
Hardness(Mho)	2

Characterization

Dimension of CsI(Tl): 28 x 28 x 28 mm

PMT: R1306; Reflector: Teflon(0.80 mm); Radiation source: Cesium¹³⁷; HV: 650V

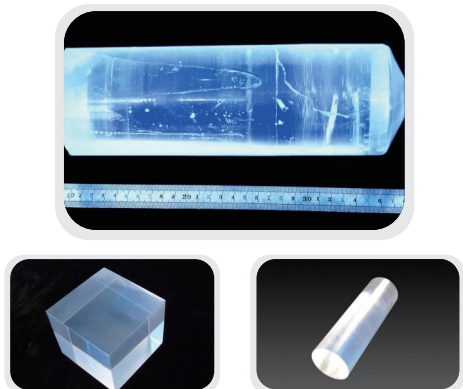
Absolute value of light output: 60,000 photons/MeV; Energy resolution: 7.6%; Decay time: 1,020 ns



Tel/fax: 86 512 50135884 Email: sales@epic-crystal.com

Add: 7# Building, No.1 Jinjie Road, Huaqiao Economic Development Area, Kunshan City, Jiangsu Province 215332, China

CsI(Na) Scintillator



Sodium doped cesium iodide, CsI(Na), has a relatively high output, around 85% of NaI(Tl), its emission peak is at 420 nm and is well matched to the photomultiplier(PMT), which make it well suited for well logging, space research or other applications where severe shock conditions are encountered.

Basic Information

- Growth technique: Bridgman
- Dimension(max): $\varnothing$ 93 mm x 300 mm
- Achieved items: crystal blank and encapsulated

General Properties

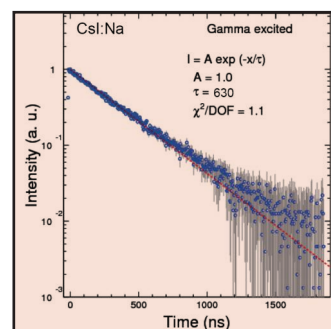
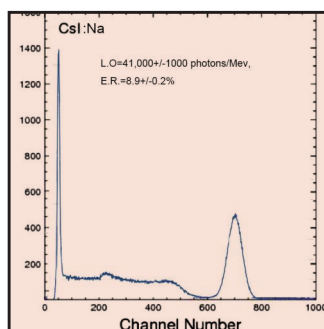
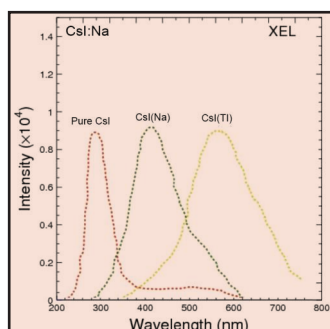
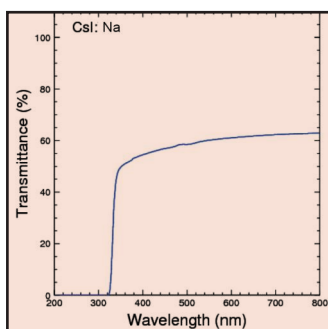
Density(g/cm ³)	4.51
Melting point(K)	894
Wavelength of emission peak(nm)	420
Light output(Photons/Mev)	41,000
Decay time(ns)	630
Cleavage plane	No
Hygroscopic	Yes
Refractive index	1.84
Hardness(Mho)	2

Characterization

Dimension of CsI(Na): 38 x 45 x 45 mm

PMT: R6233; Reflector: Teflon(0.80 mm); Radiation source: Cesium¹³⁷; HV: 650V

Absolute value of light output: 41,000 photons/Mev; Energy resolution: 8.9%; Decat time: 630 ns



Scintillation decay curve by gamma ray excited

Tel/fax: 86 512 50135884 Email: sales@epic-crystal.com

Add: 7# Building, No.1 Jinjie Road, Huaqiao Economic Development Area, Kunshan City, Jiangsu Province 215332, China