

MarkeTech Cesium Iodide:Thallium (CsI:TI) Scintillator Crystal

Category : Ceramic , Halide

Material Notes:

Cesium Iodide activated by thallium is a scintillation material with high absorption power and can be used as an efficient gamma ray absorber. CsI:TI is soluble in water, but is not hygroscopic in laboratory conditions. It has high resistance to mechanical and thermal shocks. CsI:TI can be easily fabricated into wide variety of shapes and geometries. It can be also fabricated into detection matrices. Data provided by the supplier, MarkeTech International.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-Cesium-IodideThallium-CsITI-Scintillator-Crystal.php

Physical Properties	Metric	English	Comments
Density	4.51 g/cc	0.163 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	2.0	2.0	

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 Åµm/m-Å°C	27.8 Åµin/in-Å°F	
Melting Point	621 Å°C	1150 Å°F	

Descriptive Properties	Value	Comments
Crystal Structure	Cubic	
Hydroscopic?	Slightly	
Luminescence: Afterglow	<2%	at 6 ms
Luminescence: Decay Constant	900 n/s	
Luminescence: Integrated Light Output	45	NaI:TI = 100
Luminescence: Photon Yield	52	300K; 10 ^{>3</sup> pH/MeV}
Luminescence: Radiation Length	1.86 cm	
Luminescence: Wavelength of max emissions	550 nm	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China