## MarkeTech Calcium Fluoride:Europium (CaF2:Eu) Scintillator Crystal

Category : Ceramic , Halide

## Material Notes:

Calcium fluoride activated by Europium is light scintillators are used for detection of charged particles and soft gamma ray up to several hundreds keV. CaF:Eu is typically used for detection of beta rays due to its relatively small back scattering. It is not suitable for detection of high-energy gamma ray because has a small photo fraction. It is non hygroscopic and is relatively chemically inert.Data provided by the supplier, MarkeTech International.

## Order this product through the following link:

http://www.lookpolymers.com/polymer\_MarkeTech-Calcium-FluorideEuropium-CaF2Eu-Scintillator-Crystal.php

Physical Properties	Metric	English	Comments	
Density	3.18 g/cc	0.115 lb/in³		
Mechanical Properties	Metric	English	Comments	

Thermal Properties	Metric	English	Comments
CTE, linear	19.5 µm/m-°C	10.8 µin/in-°F	
Melting Point	1360 °C	2480 °F	

Descriptive Properties	Value	Comments
Crystal Structure	Cubic	
Hydroscopic?	No	
Luminescence: Afterglow	<0.3%	at 6 ms
Luminescence: Decay Constant	940 n/s	
Luminescence: Integrated Light Output	50	Nal:Tl = 100
Luminescence: Photon Yield	23	300K; 10 <sup>3</sup> pH/MeV
Luminescence: Radiation Length	3.05 cm	
Luminescence: Wavelength of max emissions	435 nm	

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