

MarkeTech Yttrium aluminum garnet:Ce (YGA:Ce; Y3Al5O12) Scintillator Crystal

Category : Ceramic , Oxide

Material Notes:

Yttrium aluminum garnet activated by cerium is fast with excellent mechanical properties and is chemically resistant scintillator.

Mechanical properties enable to produce YAG:Ce scintillation screens down to a thickness of 30 μm . YAG:Ce detectors are excellent for electron microscopy, beta and X-ray counting, electron and X-ray imaging screens. Data provided by the supplier, MarkeTech International.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-Yttrium-aluminum-garnetCe-YGACe-Y3Al5O12-Scintillator-Crystal.php

Physical Properties	Metric	English	Comments
Density	4.57 g/cc	0.165 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	8.5	8.5	

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 - 9.00 $\mu\text{m/m-}^{\circ}\text{C}$	4.44 - 5.00 $\mu\text{in/in-}^{\circ}\text{F}$	
Melting Point	1970 $^{\circ}\text{C}$	3580 $^{\circ}\text{F}$	

Descriptive Properties	Value	Comments
Crystal Structure	Cubic	
Hydroscopic?	No	
Luminescence: Afterglow	<0.005%	at 6 ms
Luminescence: Decay Constant	70 n/s	
Luminescence: Integrated Light Output	15	NaI:TI = 100
Luminescence: Photon Yield	8	300K; 10 ³ pH/MeV
Luminescence: Radiation Length	3.5 cm	
Luminescence: Wavelength of max emissions	550 nm	

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