

MarkeTech Gadolinium silicate:Cerium (GSO:Ce; Gd2SiO5) Scintillator Crystal

Category: Ceramic, Oxide

Material Notes:

Gadolinium silicate doped with cerium is a "fast" crystal and can be used as a protection scintillator. Its possible applications include computer tomography, spatial resolution of less than 1 mm. Is the most promising for spectrometry and radiometry of gamma-radiation in the low energy range (

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-Gadolinium-silicateCerium-GSOCe-Gd2SiO5-Scintillator-Crystal.php

Physical Properties	Metric	English	Comments
Density	6.71 g/cc	0.242 lb/in³	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	5.7	5.7	

Thermal Properties	Metric	English	Comments
CTE, linear	4.00 - 12.0 Âμm/m-°C	2.22 - 6.67 µin/in-°F	

Descriptive Properties	Value	Comments
Crystal Structure	Monoclinic	
Luminescence: Afterglow	<0.005%	at 6 ms
Luminescence: Decay Constant	30-60 n/s	
Luminescence: Integrated Light Output	20-25	Nal:Tl = 100
Luminescence: Photon Yield	8 to 10	300K; 10 ³ pH/MeV
Luminescence: Radiation Length	1.38 cm	
Luminescence: Wavelength of max emissions	440 nm	

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