

## MarkeTech Barium Fluoride, BaF<sub>2</sub> Scintillator Crystal

Category : Ceramic , Halide

**Material Notes:**

Data provided by the supplier, MarkeTech International.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_MarkeTech-Barium-Fluoride-BaF2-Scintillator-Crystal.php](http://www.lookpolymers.com/polymer_MarkeTech-Barium-Fluoride-BaF2-Scintillator-Crystal.php)

Physical Properties	Metric	English	Comments
Density	4.89 g/cc	0.177 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	3.0	3.0	

Thermal Properties	Metric	English	Comments
CTE, linear	18.4 $\mu\text{m/m}\cdot\text{C}^\circ$	10.2 $\mu\text{in/in}\cdot\text{F}^\circ$	
Melting Point	1280 $\text{C}^\circ$	2340 $\text{F}^\circ$	

Descriptive Properties	Value	Comments
Crystal Structure	Cubic	
Hydroscopic?	No	
Luminescence: Decay Constant	630/0.6 n/s	
Luminescence: Integrated Light Output	20/2	NaI:Tl = 100
Luminescence: Photon Yield	10	300K; 10 <sup>3</sup> pH/MeV
Luminescence: Radiation Length	2.03 cm	
Luminescence: Wavelength of max emissions	325/220 nm	

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