

## MarkeTech PWO (Lead tungstate, PbWO<sub>4</sub>) Scintillator Crystal

Category : Ceramic , Oxide

### Material Notes:

Lead tungstate PbWO<sub>4</sub> (PWO) is a new "heavy" highly efficient and "fast" scintillator for high energy physics. It has the shortest radiation length and Moliere radius among the known scintillators, satisfactory light yield for this energy range, high radiation stability. Production technology which is under continuous development allows to prepare uniform scintillators ensuring high energetic and special resolution of the detecting assemblies on accelerators. Data provided by the supplier, MarkeTech International.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_MarkeTech-PWO-Lead-tungstate-PbWO4-Scintillator-Crystal.php](http://www.lookpolymers.com/polymer_MarkeTech-PWO-Lead-tungstate-PbWO4-Scintillator-Crystal.php)

Physical Properties	Metric	English	Comments
Density	8.28 g/cc	0.299 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	3.5 - 4.0	3.5 - 4.0	

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 Åµm/m-Å°C	5.56 Åµin/in-Å°F	
Melting Point	1125 Å°C	2057 Å°F	

Descriptive Properties	Value	Comments
Crystal Structure	Tetragonal	
Hydroscopic?	No	
Luminescence: Decay Constant	2/10/30 n/s	
Luminescence: Integrated Light Output	5	BGO = 100
Luminescence: Photon Yield	22.6 - 25.6	300K; 10<sup>3</sup> pH/MeV
Luminescence: Radiation Length	0.85 cm	
Luminescence: Wavelength of max emissions	430/520 nm	

## Contact Songhan Plastic Technology Co.,Ltd.

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