

## MarkeTech Yttrium Vanadate (YVO4) Fiber Optic Crystal

Category : Ceramic , Oxide

### Material Notes:

Large birefringence and wide transparency range (400 to 4000 nm); finds uses as fiber optic isolators, circulators, and beam displacers.

Grown by Czochralski method.Data provided by the supplier, MarkeTech International.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_MarkeTech-Yttrium-Vanadate-YVO4-Fiber-Optic-Crystal.php](http://www.lookpolymers.com/polymer_MarkeTech-Yttrium-Vanadate-YVO4-Fiber-Optic-Crystal.php)

Physical Properties	Metric	English	Comments
Density	4.22 g/cc	0.152 lb/in <sup>3</sup>	
a Lattice Constant	7.12 Å...	7.12 Å...	
c Lattice Constant	6.29 Å...	6.29 Å...	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	5.0	5.0	

Thermal Properties	Metric	English	Comments
CTE, linear	4.43 Åµm/m-Å°C	2.46 Åµin/in-Å°F	a direction
	11.37 Åµm/m-Å°C	6.317 Åµin/in-Å°F	c direction
Thermal Conductivity	5.10 W/m-K	35.4 BTU-in/hr-ft <sup>2</sup> -Å°F	c direction
	5.32 W/m-K	36.9 BTU-in/hr-ft <sup>2</sup> -Å°F	a direction
Melting Point	1825 Å°C	3317 Å°F	

Optical Properties	Metric	English	Comments
Refractive Index	1.95	1.95	&#951; <sub>o</sub>
	2.1554	2.1554	&#951; <sub>e</sub>

Descriptive Properties	Value	Comments
Crystal Structure	Tetragonal	

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