

# TSAG

Key Isolator Material for Next Generation Fiber Laser

## Features

- ✓ High Power Compliant  
Low Thermally-Induced Birefringence
- ✓ Large Verdet Constant
- ✓ Low Absorption



## Advantages of TSAG vs. TGG

*The Best Suited for High Power Use*

Verdet Constant\*  
**20%**  
Higher than TGG

Absorption\*\*  
**30%**  
Less than TGG

*Make Your Isolator Small*

\* 48 rad/T/m at 1064 nm (reference: in-house measurement)

\*\* 3000 ppm/cm at 1064 nm (reference: measured with Model PCI-3 (Stanford Photo-Thermal Solutions))

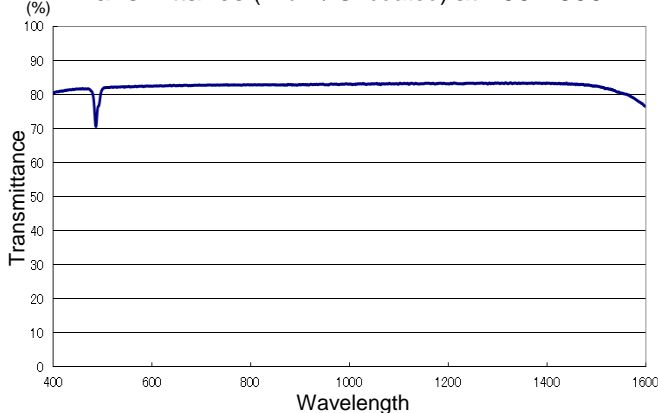
## Properties

Crystal Structure: Cubic

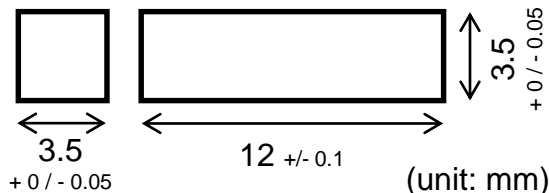
Density: 5.91 g/cm<sup>3</sup>

Lattice Constant: 1.23 nm

Transmittance (\*Bulk / Uncoated) at 400-1600 nm



## Standard Element



AR Coat: R<0.3% at 1064 nm  
Parallelism S1//S2: <3 arcmin.  
Extinction Ratio: >30 dB

Contact for Custom Request

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