

## Accuratus Accuflect™ Light-Reflecting Ceramic

Category : Ceramic , Glaze

### Material Notes:

Accuflect™ is a specially formulated and processed ceramic developed by Accuratus to satisfy the market demand for diffuse reflectors in high temperature and high energy environments. Key Property: Highly diffuse reflectance from near UV to Infrared Typical Uses: Flashlamp pumped solid state laser cavities, Diode laser pumped solid state laser cavities, High temperature diffuse illumination, High temperature lamp housings, Tube furnace radiant energy reflectors General Information: B6 type Accuflect™ is a porous ceramic usable to 1300 °C. B6 material has enhanced reflectance in the infrared. When the material is used in water cooled cavities or areas of significant contamination a glazed ceramic designated G6 is recommended. G6 is usable to 750 °C. Accuflect™ reflects 95% to 99% of incident light from 450 nm to 2500 nm. The reflectivity is essentially non-specular with nearly perfect LAMBERTIAN behavior across the entire spectrum. Accuflect™ is available in two product types. The B6 material has the virgin ceramic surface produced during manufacture. The G6 material has a specialty clear glaze applied to seal the surface porosity of the virgin material, allow easy cleaning and provide a non-contaminating surface where it is exposed to atmosphere or liquid environments. Information provided by Accuratus.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Accuratus-Accuflect-Light-Reflecting-Ceramic.php](http://www.lookpolymers.com/polymer_Accuratus-Accuflect-Light-Reflecting-Ceramic.php)

Physical Properties	Metric	English	Comments
Density	2.30 g/cc	0.0831 lb/in <sup>3</sup>	
Porosity	30 %	30 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	27.5 MPa	3990 psi	
Compressive Strength	62.0 MPa	8990 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.70 μm/m-°C	4.28 μin/in-°F	
Thermal Conductivity	5.80 W/m-K	40.3 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	1200 °C	2190 °F	no load

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.5	5.5	
Dielectric Strength	3.00 kV/mm	76.2 kV/in	
Dissipation Factor	0.0030	0.0030	

Descriptive Properties	Value	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China