

## Schott GM39923 Dental Glass

Category : Ceramic , Glass , Oxide , Silicon Oxide

### Material Notes:

Remarks: Ba- and F-containing, low refractive glass  
 Application: Composite  
 Advantages: Greater variety of composition and refractive indices  
 Outstanding transparency  
 Best radiopacities  
 Information Provided by SCHOTT North America, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Schott-GM39923-Dental-Glass.php](http://www.lookpolymers.com/polymer_Schott-GM39923-Dental-Glass.php)

Physical Properties	Metric	English	Comments
Density	2.80 g/cc	0.101 lb/in <sup>3</sup>	

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	2.78 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	590 $\text{Å}^\circ\text{C}$	1090 $\text{Å}^\circ\text{F}$	ISO 7884-8

Optical Properties	Metric	English	Comments
Refractive Index	1.52	1.52	n <sub>d</sub>

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	10 %	10 %	
B <sub>2</sub> O <sub>3</sub>	10 %	10 %	
BaO	25 %	25 %	
Fluorine, F	2.0 %	2.0 %	
SiO <sub>2</sub>	55 %	55 %	

Descriptive Properties	Value	Comments
Hydrolytic Resistance	Class 1	DIN ISO 719
Radiopacity (digital method)	560	ISO 4049
Radiopacity as thickness of aluminium equal to 2-mm thick glass material	4.2 (210%)	ISO 4049

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