

## Schott GM35429 Dental Glass

Category : Ceramic , Glass

### Material Notes:

Remarks: High fluoride containing Ca-glass  
 Application: Glass ionomer cement  
 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-GM35429-Dental-Glass.php](http://www.lookpolymers.com/polymer_Schott-GM35429-Dental-Glass.php)

Physical Properties	Metric	English	Comments
Density	2.60 g/cc	0.0939 lb/in <sup>3</sup>	

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.56 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	430 $\text{Å}^\circ\text{C}$	806 $\text{Å}^\circ\text{F}$	ISO 7884-8

Optical Properties	Metric	English	Comments
Refractive Index	1.47	1.47	n <sub>d</sub>

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	30 %	30 %	
CaO	10 %	10 %	
Fluorine, F	15 %	15 %	
Na <sub>2</sub> O	<= 10 %	<= 10 %	
P <sub>2</sub> O <sub>5</sub>	<= 10 %	<= 10 %	
SiO <sub>2</sub>	30 %	30 %	

Descriptive Properties	Value	Comments
Radiopacity (digital method)	90	ISO 4049
Radiopacity as thickness of aluminium equal to 2-mm thick glass material	1 (50%)	

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