

Schott G018-090 Dental Glass

Category : Ceramic , Glass

Material Notes:

Remarks: High fluoride and Zn-containing Sr-glass
 Application: Glass ionomer cement, Compomer
 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-G018-090-Dental-Glass.php

Physical Properties	Metric	English	Comments
Density	3.10 g/cc	0.112 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	7.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	3.89 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	505 $\text{Å}^\circ\text{C}$	941 $\text{Å}^\circ\text{F}$	ISO 7884-8

Optical Properties	Metric	English	Comments
Refractive Index	1.51	1.51	n_{d}

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	20 %	20 %	
Fluorine, F	20 %	20 %	
Na ₂ O	$\leq 5.0 \%$	$\leq 5.0 \%$	
P ₂ O ₅	$\leq 5.0 \%$	$\leq 5.0 \%$	
SiO ₂	30 %	30 %	

Descriptive Properties	Value	Comments
Radiopacity (digital method)	460	ISO 4049
Radiopacity as thickness of aluminium equal to 2-mm thick glass material	5 (250%)	
SrO (%)	20	
ZnO (%)	10	

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