

Schott G018-161 Dental Glass

Category : Ceramic , Glass

Material Notes:

Remarks: Extremely high radioopacity, Zr containing
 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-G018-161-Dental-Glass.php

Physical Properties	Metric	English	Comments
Density	4.60 g/cc	0.166 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	6.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	3.33 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	585 $\text{Å}^\circ\text{C}$	1090 $\text{Å}^\circ\text{F}$	ISO 7884-8

Optical Properties	Metric	English	Comments
Refractive Index	1.83	1.83	n _d

Component Elements Properties	Metric	English	Comments
B2O3	20 %	20 %	
SiO2	5.0 %	5.0 %	
TiO2	$\leq 5.0 \%$	$\leq 5.0 \%$	
ZrO2	$\leq 5.0 \%$	$\leq 5.0 \%$	

Descriptive Properties	Value	Comments
La2O3 (%)	35	
Nb2O5 (%)	10	
Radiopacity (digital method)	2150	ISO 4049
Radiopacity as thickness of aluminium equal to 2-mm thick glass material	8 (400%)	ISO 4049
WO3 (%)	5	
ZnO (%)	20	

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