

Schott G018-310 Dental Glass

Category : Ceramic , Glass

Material Notes:

Remarks: Zr-containing, high refractive index
 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-G018-310-Dental-Glass.php

Physical Properties	Metric	English	Comments
Density	3.00 g/cc	0.108 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	2.50 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	680 $\text{Å}^\circ\text{C}$	1260 $\text{Å}^\circ\text{F}$	ISO 7884-8

Optical Properties	Metric	English	Comments
Refractive Index	1.60	1.60	n _d

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	20 %	20 %	
SiO ₂	45 %	45 %	
ZrO ₂	5.0 %	5.0 %	

Descriptive Properties	Value	Comments
Cs ₂ O (%)	<5	
Hydrolytic Resistance	Class 1	DIN ISO 719
La ₂ O ₃ (%)	20	
Li ₂ O (%)	<5	
Radiopacity (digital method)	780	ISO 4049
Ta ₂ O ₅ (%)	<5	
ZnO (%)	<5	

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