

Schott GM31684 Dental Glass

Category : Ceramic , Glass , Oxide , Silicon Oxide

Material Notes:

Remarks: High refractive index glass ceramic
 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-GM31684-Dental-Glass.php

Physical Properties	Metric	English	Comments
Density	2.90 g/cc	0.105 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	1.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	0.556 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	800 $\text{Å}^\circ\text{C}$	1470 $\text{Å}^\circ\text{F}$	ISO 7884-8

Optical Properties	Metric	English	Comments
Refractive Index	1.58	1.58	n _d

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	20 %	20 %	
K ₂ O	1.0 %	1.0 %	
P ₂ O ₅	5.0 %	5.0 %	
SiO ₂	50 %	50 %	
ZrO ₂	5.0 %	5.0 %	

Descriptive Properties	Value	Comments
Hydrolytic Resistance	Class 1	DIN ISO 719
La ₂ O ₃ (%)	10	
Li ₂ O (%)	5	
Radiopacity (digital method)	410	ISO 4049
Radiopacity as thickness of aluminium equal to 2-mm thick glass material	4.4 (220%)	ISO 4049

Descriptive Properties	Value	Comments
ZnO (%)	1	

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