

Schott G018-163 Dental Glass

Category : Ceramic , Glass , Oxide , Silicon Oxide

Material Notes:

Remarks: Sr- and F-containing, very low refractive glass
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-G018-163-Dental-Glass.php

Physical Properties	Metric	English	Comments
Density	2.50 g/cc	0.0903 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	3.00 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -30.0 - 70.0 $^\circ\text{C}$	1.67 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -22.0 - 158 $^\circ\text{F}$	
Transformation Temperature, Tg	610 $^\circ\text{C}$	1130 $^\circ\text{F}$	ISO 7884-8

Optical Properties	Metric	English	Comments
Refractive Index	1.50	1.50	n_{d}

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	15 %	15 %	
B ₂ O ₃	15 %	15 %	
Fluorine, F	2.0 %	2.0 %	
SiO ₂	60 %	60 %	

Descriptive Properties	Value	Comments
Hydrolytic Resistance	Class 1	DIN ISO 719
Radiopacity (digital method)	260	ISO 4049
Radiopacity as thickness of aluminium equal to 2-mm thick glass material	4 (200%)	ISO 4049
SrO (%)	15	

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