

Schott G018-093 Dental Glass

Category : Ceramic , Glass , Oxide , Silicon Oxide

Material Notes:

Remarks: Sr- and F-containing, 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-G018-093-Dental-Glass.php

Physical Properties	Metric	English	Comments
Density	2.60 g/cc	0.0939 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -30.0 - 70.0 $^\circ\text{C}$	2.78 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @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	1.51	1.51	n_{d}

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	15 %	15 %	
B ₂ O ₃	15 %	15 %	
BaO	1.0 %	1.0 %	
Fluorine, F	2.0 %	2.0 %	
SiO ₂	50 %	50 %	

Descriptive Properties	Value	Comments
Hydrolytic Resistance	Class 1	DIN ISO 719
Radiopacity (digital method)	330	ISO 4049
Radiopacity as thickness of aluminium equal to 2-mm thick glass material	4.2 (210%)	ISO 4049
SrO (%)	20	

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