

Schott NanoFine 180 Dental Glass

Category : Ceramic , Glass , Oxide , Silicon Oxide

Material Notes:

NanoFine 180 falls between UltraFine powders and the common nano powders, this grain size can open up new dimensions of filler load, transparency and polishability. Advantages First refractive index matching radiopaque glass < 200 nm (d50) Ideal compatibility to the established GM27884 powders Extremely narrow grain size distribution Easy to disperse Information Provided by SCHOTT North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-NanoFine-180-Dental-Glass.php

Physical Properties	Metric	English	Comments
Density	2.80 g/cc	0.101 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	4.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	2.22 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	665 $\text{Å}^\circ\text{C}$	1230 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.53	1.53	n _d

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	10 %	10 %	
B ₂ O ₃	10 %	10 %	
BaO	25 %	25 %	
SiO ₂	55 %	55 %	

Descriptive Properties	Value	Comments
Grain Size d50 (nm)	150-210	
Grain Size d99 (nm)	less than 500	
Hydrolytic Resistance	Class 1	DIN ISO 719
Radiopacity as thickness of aluminium equal to 2-mm thick glass material	4.2	ISO 4049

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