

Corning Vycor® 7904 Blue Glass

Category : Ceramic , Glass , Optical , Oxide , Silicon Oxide

Material Notes:

Absorbs yellow wavelengths and causes light transmitted through the glass to have a higher color temperature. Cobalt is introduced into the glass structure; therefore a lamp can be produced without the issues of burn-off and light scatter that coated lamps have. Blue VYCOR can be run in high temperature lamp manufacturing processes without additional cost or process steps. Special Features: Superior optical quality Tight dimensional control Thermal and chemical properties ideally suited to high temperatures. Excellent thermal shock resistance Information provided by Corning Incorporated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Corning-Vycor-7904-Blue-Glass.php

Thermal Properties	Metric	English	Comments
CTE, linear	0.850 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	0.472 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Softening Point	1005 $^\circ\text{C}$	1841 $^\circ\text{F}$	
Annealing Point	900 $^\circ\text{C}$	1650 $^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Transmission, Visible	53 - 61 %	53 - 61 %	tubing
	@Thickness 1.00 mm, Wavelength 590 nm	@Thickness 0.0394 in, Wavelength 590 nm	
	62 - 70 %	62 - 70 %	tubing
	@Thickness 1.00 mm, Wavelength 500 nm	@Thickness 0.0394 in, Wavelength 500 nm	
	82 - 90 %	82 - 90 %	tubing
	@Thickness 1.00 mm, Wavelength 400 nm	@Thickness 0.0394 in, Wavelength 400 nm	
IR Transmittance	92 %	92 %	tubing
UV Transmittance	≤ 1.0 %	≤ 1.0 %	tubing
	@Thickness 1.00 mm, Wavelength 200 nm	@Thickness 0.0394 in, Wavelength 200 nm	
	73 %	73 %	tubing
	@Thickness 1.00 mm, Wavelength 300 nm	@Thickness 0.0394 in, Wavelength 300 nm	

Component Elements Properties	Metric	English	Comments
SiO2	96 %	96 %	

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