

Schott BG28 Band Pass Filter

Category : Ceramic , Glass , Optical , Filter

Material Notes:

Ionically colored glass. Data provided by the manufacturer, Schott Glas Mainz.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-BG28-Band-Pass-Filter.php

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

Thermal Properties	Metric	English	Comments
CTE, linear	8.70 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	4.83 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $^\circ\text{C}$	@Temperature -22.0 - 158 $^\circ\text{F}$	
	10.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	5.56 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 - 300 $^\circ\text{C}$	@Temperature 68.0 - 572 $^\circ\text{F}$	
Transformation Temperature, Tg	474 $^\circ\text{C}$	885 $^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.52	1.52	He
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.53	1.53	Hg
	@Wavelength 404.7 nm	@Wavelength 404.7 nm	
Transmission, Visible	<= 1.0 %	<= 1.0 %	
	@Wavelength 580 - 700 nm	@Wavelength 580 - 700 nm	
	75 %	75 %	Internal transmittance of 82% at 450 nm
	@Wavelength 450 nm	@Wavelength 450 nm	
IR Transmittance	79 %	79 %	Internal transmittance of 86% at 2600 nm.
	@Wavelength 2600 nm	@Wavelength 2600 nm	
UV Transmittance	<= 0.40 %	<= 0.40 %	
	@Wavelength 200 - 320 nm	@Wavelength 200 - 320 nm	
	61 %	61 %	Internal transmittance of 67% at 390 nm

Optical Properties	Metric @ Wavelength 390 nm	English @ Wavelength 390 nm	Comments
Reflection Coefficient, Visible (0-1)	0.92	0.92	

Chemical Properties	Metric	English	Comments
Acid Class, SR	1	1	
Alkali Class, AR	1	1	
Stain Resistance Class, FR	0.0	0.0	

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