

Schott BG4 Band Pass Filter

Category : Ceramic , Glass , Filter , Optical

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-BG4-Band-Pass-Filter.php

Physical Properties	Metric	English	Comments
Density	2.66 g/cc	0.0961 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	7.70 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.28 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	9.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	536 $\text{Å}^\circ\text{C}$	997 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.52	1.52	Hg
	@Wavelength 1014 nm	@Wavelength 1014 nm	
	1.53	1.53	He
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
1.54	1.54	Hg	
@Wavelength 435.8 nm	@Wavelength 435.8 nm		
1.57	1.57	Hg	
@Wavelength 302.1 nm	@Wavelength 302.1 nm		
Transmission, Visible	$\leq 1.0\%$	$\leq 1.0\%$	
	@Wavelength 490 - 690 nm	@Wavelength 490 - 690 nm	
IR Transmittance	87 %	87 %	Internal transmittance of 95% at 400 nm
	@Wavelength 400 nm	@Wavelength 400 nm	
	91 %	91 %	Internal transmittance of 99% from

Optical Properties	Metric @Wavelength 760 - 300 nm	English @Wavelength 760 - 300 nm	760-800 nm. Comments
UV Transmittance	<= 0.020 %	<= 0.020 %	
	@Wavelength 200 - 270 nm	@Wavelength 200 - 270 nm	
	91 %	91 %	Internal transmittance of 99% from 340-380 nm
	@Wavelength 340 - 380 nm	@Wavelength 340 - 380 nm	
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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