

Schott BG23 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-BG23-Band-Pass-Filter.php

Physical Properties	Metric	English	Comments
Density	2.57 g/cc	0.0928 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	8.90 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	4.94 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature -30.0 - 70.0 $^{\circ}\text{C}$	@Temperature -22.0 - 158 $^{\circ}\text{F}$	
	10.2 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	5.67 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Transformation Temperature, Tg	483 $^{\circ}\text{C}$	901 $^{\circ}\text{F}$	

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	$\leq 1.0\%$	$\leq 1.0\%$	
	@Wavelength 660 - 700 nm	@Wavelength 660 - 700 nm	
IR Transmittance	87 %	87 %	Internal transmittance of 94% from 450-480 nm
	@Wavelength 460 - 470 nm	@Wavelength 460 - 470 nm	
UV Transmittance	84 %	84 %	Internal transmittance of 91% from 2500-2600 nm.
	@Wavelength 2500 - 2600 nm	@Wavelength 2500 - 2600 nm	
UV Transmittance	$\leq 0.30\%$	$\leq 0.30\%$	
	@Wavelength 200 - 310 nm	@Wavelength 200 - 310 nm	

Optical Properties	79 % Metric	79 % English	Comments
	@Wavelength 390 nm	@Wavelength 390 nm	Transmittance of 86% at 390 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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