

Schott BG12 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-BG12-Band-Pass-Filter.php

Physical Properties	Metric	English	Comments
Density	2.58 g/cc	0.0932 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	8.60 Åµm/m-Å°C	4.78 Åµin/in-Å°F	
	@Temperature -30.0 - 70.0 Å°C	@Temperature -22.0 - 158 Å°F	
	10.1 Åµm/m-Å°C	5.61 Åµin/in-Å°F	
	@Temperature 20.0 - 300 Å°C	@Temperature 68.0 - 572 Å°F	
Transformation Temperature, Tg	480 Å°C	896 Å°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 540 - 700 nm	@Wavelength 540 - 700 nm	
	80 %	80 %	Internal transmittance of 87% from 390-400 nm
	@Wavelength 390 - 400 nm	@Wavelength 390 - 400 nm	
	80 %	80 %	Internal transmittance of 87% from 400-410 nm
	@Wavelength 400 - 410 nm	@Wavelength 400 - 410 nm	
	75 %	75 %	Internal transmittance of 82% at 2600 nm.
IR Transmittance	@Wavelength 2500 - 2600 nm	@Wavelength 2500 - 2600 nm	

Optical Properties	<= 0.040 % Metric	<= 0.040 % English	Comments
UV Transmittance	@Wavelength 200 - 310 nm	@Wavelength 200 - 310 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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