

Schott BG42 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-BG42-Band-Pass-Filter.php

Physical Properties	Metric	English	Comments
Density	2.69 g/cc	0.0972 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	7.30 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.06 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	8.70 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.83 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	477 $\text{Å}^\circ\text{C}$	891 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.54	1.54	He
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.55	1.55	Hg
	@Wavelength 404.7 nm	@Wavelength 404.7 nm	
Transmission, Visible	$\leq 10\%$	$\leq 10\%$	
	@Wavelength 660 - 700 nm	@Wavelength 660 - 700 nm	
IR Transmittance	84 %	84 %	Internal transmittance of 93% from 510-530 nm
	@Wavelength 500 - 530 nm	@Wavelength 500 - 530 nm	
UV Transmittance	81 %	81 %	Internal transmittance of 89% at 2400 nm.
	@Wavelength 2400 nm	@Wavelength 2400 nm	
	$\leq 0.60\%$	$\leq 0.60\%$	
	@Wavelength 200 - 310 nm	@Wavelength 200 - 310 nm	
	62 %	62 %	

Optical Properties	Metric @ Wavelength 390 nm	English @ Wavelength 390 nm	Comments Internal transmittance of 68% at 390 nm
Reflection Coefficient, Visible (0-1)	0.91	0.91	

Chemical Properties	Metric	English	Comments
Acid Class, SR	2	2	
Alkali Class, AR	2	2	
Stain Resistance Class, FR	0.0	0.0	

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