

Schott BG7 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-BG7-Band-Pass-Filter.php

Physical Properties	Metric	English	Comments
Density	2.61 g/cc	0.0943 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	8.50 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.72 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	9.90 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.50 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	468 $\text{Å}^\circ\text{C}$	874 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.52	1.52	He
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.54	1.54	Hg
	@Wavelength 404.7 nm	@Wavelength 404.7 nm	
Transmission, Visible	$\leq 1.0\%$	$\leq 1.0\%$	
	@Wavelength 610 - 700 nm	@Wavelength 610 - 700 nm	
	52 %	52 %	Internal transmittance of 56% at 400 nm
	@Wavelength 400 nm	@Wavelength 400 nm	
	73 %	73 %	Internal transmittance of 79% at 400 nm
	@Wavelength 480 nm	@Wavelength 480 nm	
IR Transmittance	74 %	74 %	Internal transmittance of 80% at 2200 nm.
	@Wavelength 2200 nm	@Wavelength 2200 nm	
UV Transmittance	$\leq 1.0\%$	$\leq 1.0\%$	

Optical Properties	@Wavelength 200 - Metric 330 nm	@Wavelength 200 - English 330 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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