

Schott BG40 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-BG40-Band-Pass-Filter.php

Physical Properties	Metric	English	Comments
Density	2.67 g/cc	0.0965 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	11.9 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.61 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	13.7 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.61 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	305 $\text{Å}^\circ\text{C}$	581 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.53	1.53	He
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.54	1.54	Hg
	@Wavelength 404.7 nm	@Wavelength 404.7 nm	
Transmission, Visible	15 %	15 %	
	@Wavelength 690 nm	@Wavelength 690 nm	
	90 %	90 %	Internal transmittance of 98% at 450-530 nm
	@Wavelength 450 - 530 nm	@Wavelength 450 - 530 nm	
IR Transmittance	75 %	75 %	Internal transmittance of 81% at 2100 nm.
	@Wavelength 2100 nm	@Wavelength 2100 nm	
UV Transmittance	≤ 2.0 %	≤ 2.0 %	
	@Wavelength 200 - 310 nm	@Wavelength 200 - 310 nm	
	88 %	88 %	Internal transmittance of 95% at 390 nm

Optical Properties	Metric @ Wavelength 390 nm	English @ Wavelength 390 nm	Comments
Reflection Coefficient, Visible (0-1)	0.92	0.92	

Chemical Properties	Metric	English	Comments
Acid Class, SR	5.1	5.1	
Alkali Class, AR	3	3	
Stain Resistance Class, FR	0.0	0.0	

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