

Schott BG34 Conversion Filter

Category : Ceramic , Glass , Filter , Optical

Material Notes:

Ionically colored glass. Data provided by the manufacturer, Schott Glas Mainz..Similar glasses include FG3, FG13

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-BG34-Conversion-Filter.php

Physical Properties	Metric	English	Comments
Density	3.23 g/cc	0.117 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	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 -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	10.7 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.94 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	441 $\text{Å}^\circ\text{C}$	826 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.59	1.59	He
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.61	1.61	Hg
	@Wavelength 404.7 nm	@Wavelength 404.7 nm	
Transmission, Visible	71 %	71 %	Internal transmittance of 79% at 410 nm.
	@Wavelength 410 nm	@Wavelength 410 nm	
IR Transmittance	81 %	81 %	Internal transmittance of 90% at 2600 nm.
	@Wavelength 2600 nm	@Wavelength 2600 nm	
UV Transmittance	≤ 1.0 %	≤ 1.0 %	
	@Wavelength 200 - 340 nm	@Wavelength 200 - 340 nm	
	60 %	60 %	Internal transmittance of 66% at 390 nm
	@Wavelength 390 nm	@Wavelength 390 nm	
Reflection Coefficient, Visible (0-1)	0.90	0.90	

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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