

Schott FG13 Conversion Filter

Category : Ceramic , Glass , Filter , Optical

Material Notes:

Ionically colored glass. Data provided by the manufacturer, Schott Glas Mainz..Similar glasses include BG34, FG3

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-FG13-Conversion-Filter.php

Physical Properties	Metric	English	Comments
Density	2.78 g/cc	0.100 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	9.60 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.33 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	10.5 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.83 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	566 $\text{Å}^\circ\text{C}$	1050 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.55	1.55	He
	@Wavelength 706.5 nm	@Wavelength 706.5 nm	
	1.56	1.56	He
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
Transmission, Visible	$\leq 2.0\%$	$\leq 2.0\%$	
	@Wavelength 400 - 460 nm	@Wavelength 400 - 460 nm	
	78 %	78 %	Internal transmittance of 86% at 700 nm.
	@Wavelength 700 nm	@Wavelength 700 nm	
IR Transmittance	87 - 88 %	87 - 88 %	Internal transmittance of 96-97% from 1500-2100 nm.
	@Wavelength 1500 - 2100 nm	@Wavelength 1500 - 2100 nm	
UV Transmittance	$\leq 0.0010\%$	$\leq 0.0010\%$	Internal transmittance of 0.001% from 200-390 nm.
	@Wavelength 200 - 390 nm	@Wavelength 200 - 390 nm	
Reflection Coefficient, Visible (0-1)	0.91	0.91	

Optical Properties	Metric	English	Comments
Chemical Properties	Metric	English	Comments
Acid Class, SR	3.4	3.4	
Alkali Class, AR	1	1	
Stain Resistance Class, FR	1	1	

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