

Schott BG24A Band Pass Filter

Category : Ceramic , Glass , Optical , Filter

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-BG24A-Band-Pass-Filter.php

Physical Properties	Metric	English	Comments
Density	2.72 g/cc	0.0983 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	8.50 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	4.72 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $^\circ\text{C}$	@Temperature -22.0 - 158 $^\circ\text{F}$	
	9.70 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	5.39 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 - 300 $^\circ\text{C}$	@Temperature 68.0 - 572 $^\circ\text{F}$	
Transformation Temperature, Tg	460 $^\circ\text{C}$	860 $^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.52	1.52	Hg
	@Wavelength 1014 nm	@Wavelength 1014 nm	
	1.53	1.53	He
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.55	1.55	Hg
	@Wavelength 365 nm	@Wavelength 365 nm	
	1.59	1.59	Hg
	@Wavelength 253.7 nm	@Wavelength 253.7 nm	
Transmission, Visible	$\leq 1.0\%$	$\leq 1.0\%$	
	@Wavelength 560 - 630 nm	@Wavelength 560 - 630 nm	
	89 %	89 %	Internal transmittance of 97% at 400 nm
	@Wavelength 400 nm	@Wavelength 400 nm	
IR Transmittance	89 %	89 %	Internal transmittance of 97% from

Optical Properties	Metric @Wavelength 730 - 750 nm	English @Wavelength 730 - 750 nm	730-740 nm. Comments
UV Transmittance	<= 20 %	<= 20 %	
	@Wavelength 200 - 210 nm	@Wavelength 200 - 210 nm	
	91 %	91 %	Internal transmittance of 99% from 320-370 nm
	@Wavelength 320 - 380 nm	@Wavelength 320 - 380 nm	
Reflection Coefficient, Visible (0-1)	0.92	0.92	

Chemical Properties	Metric	English	Comments
Acid Class, SR	3	3	
Alkali Class, AR	2	2	
Stain Resistance Class, FR	0.0	0.0	

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