

Schott BG20 Band Filter

Category : Ceramic , Glass , Optical , Filter

Material Notes:

Ionically colored glass. Data provided by the manufacturer, Schott Glas Mainz..Similar glasses include BC36

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-BG20-Band-Filter.php

Physical Properties	Metric	English	Comments
Density	2.86 g/cc	0.103 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	8.30 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	4.61 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $^\circ\text{C}$	@Temperature -22.0 - 158 $^\circ\text{F}$	
	9.30 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	5.17 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 - 300 $^\circ\text{C}$	@Temperature 68.0 - 572 $^\circ\text{F}$	
Transformation Temperature, Tg	561 $^\circ\text{C}$	1040 $^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.55	1.55	He
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
Transmission, Visible	91 %	91 %	Internal transmittance of 100% at 651nm.
	@Wavelength 651 nm	@Wavelength 651 nm	
IR Transmittance	90 - 91 %	90 - 91 %	Internal transmittance of 98-100% from 940-1300 nm.
	@Wavelength 940 - 1300 nm	@Wavelength 940 - 1300 nm	
	91 %	91 %	Internal transmittance of 100% at 710 nm.
	@Wavelength 710 nm	@Wavelength 710 nm	
UV Transmittance	<= 5.0 %	<= 5.0 %	
	@Wavelength 200 - 250 nm	@Wavelength 200 - 250 nm	
	90 - 91 %	90 - 91 %	Internal transmittance of 99-100% from 375-390 nm
	@Wavelength 375 - 390 nm	@Wavelength 375 - 390 nm	
Reflection Coefficient, Visible (0-1)	0.91	0.91	

Optical Properties	Metric	English	Comments
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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