

Schott RG830 Long Pass Filter

Category : Ceramic , Glass , Optical , Filter

Material Notes:

Colloidally colored glass. Data provided by the manufacturer, Schott Glas Mainz. Similar glasses include GG395, GG400, GG420, GG435, GG455, GG475, GG495, OG515, OG530, OG550, OG570, OG590, RG610, RG630, RG645, RG665, RG695, RG715, RG780, GG385, RG850, RG1000, WG225, WG280, WG295, WG305, WG320

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-RG830-Long-Pass-Filter.php

Physical Properties	Metric	English	Comments
Density	2.94 g/cc	0.106 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	9.80 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.44 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@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	569 $\text{Å}^\circ\text{C}$	1060 $\text{Å}^\circ\text{F}$	
Glass Temperature Coefficient	0.18	0.18	

Optical Properties	Metric	English	Comments
Refractive Index	1.55	1.55	Cs
	@Wavelength 852.1 nm	@Wavelength 852.1 nm	
	1.55	1.55	Hg
	@Wavelength 1014 nm	@Wavelength 1014 nm	
	1.56	1.56	He
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
IR Transmittance	90 %	90 %	Internal transmittance of 98-99% from 1000-1900 nm.
	@Wavelength 1000 - 1700 nm	@Wavelength 1000 - 1700 nm	
UV Transmittance	<= 0.0010 %	<= 0.0010 %	Internal transmittance of 0.001% from 200-390 nm.
	@Wavelength 200 - 390 nm	@Wavelength 200 - 390 nm	

Reflection Coefficient, Visible (0-1) Optical Properties	0.91 Metric	0.91 English	Comments
Chemical Properties	Metric	English	Comments
Acid Class, SR	4.4	4.4	
Alkali Class, AR	1	1	
Stain Resistance Class, FR	3	3	

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