

Schott OG590 Long Pass Filter

Category : Ceramic , Glass , Filter , Optical

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, GG385, RG610, RG630, RG645, RG665, RG695, RG715, RG780, RG830, RG850, RG1000, WG225, WG280, WG295, WG305, WG320

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-OG590-Long-Pass-Filter.php

Physical Properties	Metric	English	Comments
Density	2.75 g/cc	0.0994 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 $\text{Å}^\circ\text{F}$	
	10.7 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	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	599 $\text{Å}^\circ\text{C}$	1110 $\text{Å}^\circ\text{F}$	
Glass Temperature Coefficient	0.13	0.13	

Optical Properties	Metric	English	Comments
Refractive Index	1.53	1.53	Cs
	@Wavelength 852.1 nm	@Wavelength 852.1 nm	
	1.53	1.53	Hg
	@Wavelength 1014 nm	@Wavelength 1014 nm	
	1.54	1.54	He
	@Wavelength 578.6 nm	@Wavelength 578.6 nm	
Transmission, Visible	<= 6.0 %	<= 6.0 %	
	@Wavelength 400 - 570 nm	@Wavelength 400 - 570 nm	
	91 %	91 %	Internal transmittance of 100% Å from 640-700 nm
	@Wavelength 640 - 700 nm	@Wavelength 640 - 700 nm	

Optical Properties	Metric	English	Comments
In Transmittance	@Wavelength 700 - 1800 nm	@Wavelength 700 - 1800 nm	Transmittance of 100% A from 700-1800 nm.
UV Transmittance	0.0010 % @Wavelength 200 - 400 nm	0.0010 % @Wavelength 200 - 400 nm	Internal transmittance of 0.001% or less from 200-400 nm.
Reflection Coefficient, Visible (0-1)	0.91	0.91	

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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