

Schott RG715 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, GG385, RG780, RG830, RG850, RG1000, WG225, WG280, WG295, WG305, WG320

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-RG715-Long-Pass-Filter.php

Physical Properties	Metric	English	Comments
Density	2.76 g/cc	0.0997 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	9.80 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	5.44 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature -30.0 - 70.0 $^{\circ}\text{C}$	@Temperature -22.0 - 158 $^{\circ}\text{F}$	
	10.8 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	6.00 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Transformation Temperature, Tg	589 $^{\circ}\text{C}$	1090 $^{\circ}\text{F}$	
Glass Temperature Coefficient	0.17	0.17	

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	$\leq 0.090\%$	$\leq 0.090\%$	
	@Wavelength 400 - 690 nm	@Wavelength 400 - 690 nm	
	4.0 %	4.0 %	Internal transmittance of 4% at 700 nm
	@Wavelength 700 nm	@Wavelength 700 nm	
	91 %	91 %	

Optical Properties	Metric	English	Comments
	@Wavelength 760 - 1800 nm	@Wavelength 760 - 1800 nm	Internal transmittance of 100% from 760 - 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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