

Schott Glass 8405 UV-transmitting Glass

Category : Ceramic , Glass

Material Notes:

Sodium-potassium-barium-silicate glass, highly UV-transmitting Used as envelope for germicidal lamps (low-pressure mercury vapor discharge lamps) and for UV detectors The heavy metal content for the elements lead, mercury, cadmium, and hexavalent chromium is less than 100 ppm. Information provided by SCHOTT AG.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-Glass-8405-UV-transmitting-Glass.php

Physical Properties	Metric	English	Comments
Density	2.51 g/cc	0.0907 lb/in ³	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	65.0 GPa	9430 ksi	
Poissons Ratio	0.21	0.21	

Thermal Properties	Metric	English	Comments
CTE, linear	9.70 Åµm/m-Å°C	5.39 Åµin/in-Å°F	ISO 7991
	@Temperature 20.0 - 300 Å°C	@Temperature 68.0 - 572 Å°F	
Thermal Conductivity	1.00 W/m-K	6.94 BTU-in/hr-ft ² - Å°F	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
Transformation Temperature, Tg	460 Å°C	860 Å°F	ISO 7884-8
Softening Point	665 Å°C	1230 Å°F	Viscosity 10^{7.6} dPa s; ISO 7884-3
Working Point	1000 Å°C	1830 Å°F	Viscosity 10⁴ dPa s; ISO 7884-2
Annealing Point	470 Å°C	878 Å°F	Viscosity 10¹³ dPa s; ISO 7884-4

Optical Properties	Metric	English	Comments
Refractive Index	1.505	1.505	
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	>= 75 %	>= 75 %	

UV Transmittance	Metric	English	Comments
Optical Properties	@ Thickness 1.00 mm, Wavelength 253.7 nm	@ Thickness 0.0394 in, Wavelength 253.7 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.90e+6 ohm-cm	7.90e+6 ohm-cm	
	@Temperature 350 Â°C	@Temperature 662 Â°F	
	3.20e+8 ohm-cm	3.20e+8 ohm-cm	
	@Temperature 250 Â°C	@Temperature 482 Â°F	
Dielectric Constant	6.5	6.5	
	@Frequency 1.00e+6 Hz, Temperature 25.0 Â°C	@Frequency 1.00e+6 Hz, Temperature 77.0 Â°F	
Dielectric Loss Index	0.0045	0.0045	
	@Frequency 1.00e+6 Hz, Temperature 25.0 Â°C	@Frequency 1.00e+6 Hz, Temperature 77.0 Â°F	

Chemical Properties	Metric	English	Comments
Acid Class, SR	3	3	DIN 12116
Alkali Class, AR	2	2	ISO 695

Descriptive Properties	Value	Comments
Hydrolytic Resistance	Class HGB 5	ISO 719
Stress-optical Coefficient K (10-6mm2N-1)	2.8	DIN 52314
tk100(Â°C)	280	

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