

## Schott NEO 1730 Alkaline Earth Aluminosilicate Glass

Category : Ceramic , Glass

### Material Notes:

Alkaline earth aluminosilicate glass for high temperature applications in electrical engineering, for sealing to molybdenum, free from alkali Bulb and exhaust tube for halogen lamps for automotive, household, and general lighting The heavy metal content for the elements lead, cadmium, mercury, and hexavalent chromium is below 100 ppm Information provided by SCHOTT AG.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Schott-NEO-1730-Alkaline-Earth-Aluminosilicate-Glass.php](http://www.lookpolymers.com/polymer_Schott-NEO-1730-Alkaline-Earth-Aluminosilicate-Glass.php)

Physical Properties	Metric	English	Comments
Density	2.67 g/cc	0.0965 lb/in <sup>3</sup>	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 Âµm/m-Â°C	2.50 Âµin/in-Â°F	
	@Temperature 20.0 - 300 Â°C	@Temperature 68.0 - 572 Â°F	ISO 7991
Transformation Temperature, Tg	715 Â°C	1320 Â°F	ISO 7884-8
Softening Point	935 Â°C	1720 Â°F	Viscosity 10<sup>7.6</sup> dPa s; ISO 7884-3
Working Point	1210 Â°C	2210 Â°F	Viscosity 10<sup>4</sup> dPa s; ISO 7884-2
Annealing Point	725 Â°C	1340 Â°F	Viscosity 10<sup>13</sup> dPa s; ISO 7884-4
Strain Point	675 Â°C	1250 Â°F	Viscosity 10<sup>14.5</sup> dPa s; ISO 7884-7

Optical Properties	Metric	English	Comments
Refractive Index	1.548	1.548	
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
Transmission, Visible	37 %	37 %	
	@Thickness 1.00 mm, Wavelength 585 nm	@Thickness 0.0394 in, Wavelength 585 nm	
	65 %	65 %	
	@Thickness 1.00 mm, Wavelength 750 nm	@Thickness 0.0394 in, Wavelength 750 nm	
	88 %	88 %	

Optical Properties	Metric	English	Comments
	@Thickness 1.00 mm, Wavelength 775 nm	@Thickness 0.0394 in, Wavelength 775 nm	
	87 - 90 %	87 - 90 %	
	@Wavelength 375 - 500 nm, Thickness 1.00 mm	@Wavelength 375 - 500 nm, Thickness 0.0394 in	
	88 - 90 %	88 - 90 %	
	@Wavelength 620 - 725 nm, Thickness 1.00 mm	@Wavelength 620 - 725 nm, Thickness 0.0394 in	
IR Transmittance	65 %	65 %	
	@Thickness 1.00 mm, Wavelength 800 nm	@Thickness 0.0394 in, Wavelength 800 nm	
UV Transmittance	12 %	12 %	
	@Thickness 1.00 mm, Wavelength 300 nm	@Thickness 0.0394 in, Wavelength 300 nm	
	58 %	58 %	
	@Thickness 1.00 mm, Wavelength 330 nm	@Thickness 0.0394 in, Wavelength 330 nm	
	72 %	72 %	
	@Thickness 1.00 mm, Wavelength 340 nm	@Thickness 0.0394 in, Wavelength 340 nm	

Component Elements Properties	Metric	English	Comments
Alkalis	<= 0.030 %	<= 0.030 %	Total Alkali Oxide

Chemical Properties	Metric	English	Comments
Acid Class, SR	1	1	DIN 12116
Alkali Class, AR	2	2	ISO 695

Descriptive Properties	Value	Comments
Hydrolytic Resistance	Class HGB 1	ISO 719

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