

Schott WG280 Long Pass Filter

Category : Ceramic , Glass , Filter , Optical

Material Notes:

Base 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, RG830, RG850, RG1000, WG225, GG385, WG295, WG305, WG320

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-WG280-Long-Pass-Filter.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Density | 2.51 g/cc | 0.0907 lb/in ³ | |

| Thermal Properties | Metric | English | Comments |
|--------------------------------|--|--|----------|
| CTE, linear | 9.20 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 5.11 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | |
| | @Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$ | @Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$ | |
| | 9.90 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 5.50 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | |
| | @Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$ | @Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$ | |
| Transformation Temperature, Tg | 563 $\text{Å}^\circ\text{C}$ | 1050 $\text{Å}^\circ\text{F}$ | |
| Glass Temperature Coefficient | 0.38 | 0.38 | |

| Optical Properties | Metric | English | Comments |
|-----------------------|---------------------------|---------------------------|---|
| Refractive Index | 1.51 | 1.51 | Hg |
| | @Wavelength 1014 nm | @Wavelength 1014 nm | |
| | 1.52 | 1.52 | He |
| | @Wavelength 587.6 nm | @Wavelength 587.6 nm | |
| | 1.55 | 1.55 | Hg |
| | @Wavelength 296.7 nm | @Wavelength 296.7 nm | |
| Transmission, Visible | 92 % | 92 % | Internal transmittance of 100% Å from 400-700 nm. |
| | @Wavelength 400 - 700 nm | @Wavelength 400 - 700 nm | |
| IR Transmittance | 92 % | 92 % | Internal transmittance of 100% Å from 700-1900 nm. |
| | @Wavelength 700 - 1900 nm | @Wavelength 700 - 1900 nm | |

| Optical Properties UV Transmittance | $\leq 0.080\%$ Metric | $\leq 0.080\%$ English | Comments |
|--|--------------------------|---------------------------|--|
| | @Wavelength 200 - 250 nm | @Wavelength 200 - 250 nm | |
| | 92 % | 92 % | Internal transmittance of 100% Å from 360-390 nm |
| | @Wavelength 360 - 390 nm | @Wavelength 360 - 390 nm | |
| Reflection Coefficient, Visible (0-1) | 0.91 | 0.91 | |

| Chemical Properties | Metric | English | Comments |
|----------------------------|--------|---------|----------|
| Acid Class, SR | 1 | 1 | |
| Alkali Class, AR | 1.2 | 1.2 | |
| Stain Resistance Class, FR | 0.0 | 0.0 | |

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