# Schott LLF1 Glass

**Category :** Ceramic , Glass

**Material Notes:**

Information Provided by SCHOTT North America, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Schott-LLF1-Glass.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 2.94 g/cc | 0.106 lb/inÂ³ | |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Knoop Microhardness | 450 | 450 | .1/20 |
| Modulus of Elasticity | 60.0 GPa | 8700 ksi | |
| Poissons Ratio | 0.208 | 0.208 | |
| Shear Modulus | 25.0 GPa | 3630 ksi | calculated |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| CTE, linear | 8.10 Âµm/m-Â°C<br>@Temperature -30.0 - 70.0 Â°C | 4.50 Âµin/in-Â°F<br>@Temperature -22.0 - 158 Â°F | |
| | 9.20 Âµm/m-Â°C<br>@Temperature 20.0 - 300 Â°C | 5.11 Âµin/in-Â°F<br>@Temperature 68.0 - 572 Â°F | |
| Specific Heat Capacity | 0.650 J/g-Â°C | 0.155 BTU/lb-Â°F | |
| Transformation Temperature, Tg | 431 Â°C | 808 Â°F | |

| Optical Properties | Metric | English | Comments |
|---|---|---|---|
| Refractive Index | 1.54814<br>@Wavelength 587.6 nm | 1.54814<br>@Wavelength 587.6 nm | n<sub>d</sub> |
| | 1.55099<br>@Wavelength 546.1 nm | 1.55099<br>@Wavelength 546.1 nm | n<sub>e</sub> |
| Transmission, Visible | 99.5 %<br>@Thickness 10.0 mm, Wavelength 380 nm | 99.5 %<br>@Thickness 0.394 in, Wavelength 380 nm | |

| Optical Properties | Metric | English | Comments |
|---|---|---|---|
| | 99.8 %<br><br>@Thickness 10.0 mm, Wavelength 405 nm | 99.8 %<br><br>@Thickness 0.394 in, Wavelength 405 nm | |
| | 99.8 %<br><br>@Thickness 10.0 mm, Wavelength 460 nm | 99.8 %<br><br>@Thickness 0.394 in, Wavelength 460 nm | |
| | 99.9 %<br><br>@Thickness 10.0 mm, Wavelength 580 nm | 99.9 %<br><br>@Thickness 0.394 in, Wavelength 580 nm | |
| | 99.9 %<br><br>@Thickness 10.0 mm, Wavelength 700 nm | 99.9 %<br><br>@Thickness 0.394 in, Wavelength 700 nm | |
| IR Transmittance | 75.8 %<br><br>@Thickness 10.0 mm, Wavelength 2500 nm | 75.8 %<br><br>@Thickness 0.394 in, Wavelength 2500 nm | |
| | 99.6 %<br><br>@Thickness 10.0 mm, Wavelength 1530 nm | 99.6 %<br><br>@Thickness 0.394 in, Wavelength 1530 nm | |
| UV Transmittance | 2.4 %<br><br>@Thickness 10.0 mm, Wavelength 300 nm | 2.4 %<br><br>@Thickness 0.394 in, Wavelength 300 nm | |
| | 91.9 %<br><br>@Thickness 10.0 mm, Wavelength 334 nm | 91.9 %<br><br>@Thickness 0.394 in, Wavelength 334 nm | |
| | 99.4 %<br><br>@Thickness 10.0 mm, Wavelength 370 nm | 99.4 %<br><br>@Thickness 0.394 in, Wavelength 370 nm | |

| Chemical Properties | Metric | English | Comments |
|---|---|---|---|
| Acid Class, SR | 1.0 | 1.0 | |
| Alkali Class, AR | 2.0 | 2.0 | |
| Stain Resistance Class, FR | 0.00 | 0.00 | |

| Descriptive Properties | Value | Comments |
|---|---|---|
| B | 1 | |
| Climatic Resistance Test CR | 1 | |

| Descriptive Properties | Value | Comments |
|---|---|---|
| K (10-6mm2/N) | 3.05 | |
| Phosphate Resistance PR | 1 | |
| T1013.0 (Â°C) | 426 | |
| T107.6 (Â°C) | 628 | |

## Contact Songhan Plastic Technology Co.,Ltd.

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