# Data Sheet

SCHOTT

## GG395

| Reflection factor | |
|---|---|
| $P_d$ | 0.92 |

| Reference thickness | |
|---|---|
| d [mm] | 3 |

| Spectral values guaranteed | | | |
|---|---|---|---|
| λc (τi = 0.50) [nm] | = | 395 | ± 6 |
| λs (τis = 1·10-5) [nm] | = | 340 | |
| λp (τip = 0.92) [nm] | = | 480 | |

| Refractive index n | | |
|---|---|---|
| λ [nm] | Element | n |
| 546 | Hg | 1.52 |
| 587.6 | He | 1.52 |
| 852.1 | Cs | 1.52 |
| 1014 | Hg | 1.51 |

| Density | |
|---|---|
| ρ [g/cm$^3$] | 2.55 |

| Bubble content | |
|---|---|
| Bubble class | 3 |

| Chemical resistance | |
|---|---|
| FR class | 0 |
| SR class | 1.0 |
| AR class | 1.0 |

| Transformation temperature | |
|---|---|
| Tg [°C] | 538 |

| Thermal expansion | |
|---|---|
| $\alpha_{-30/+70°C}$ [$10^{-6}$/K] | 7.8 |
| $\alpha_{20/300°C}$ [$10^{-6}$/K] | 9.0 |
| $\alpha_{20/200°C}$ [$10^{-6}$/K] | |

| Temperature coefficient | |
|---|---|
| $T_k$ [nm/°C] | 0.07 |

| Notes |
|---|
| |
| Colloidally colored glass |
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| Long pass filter |
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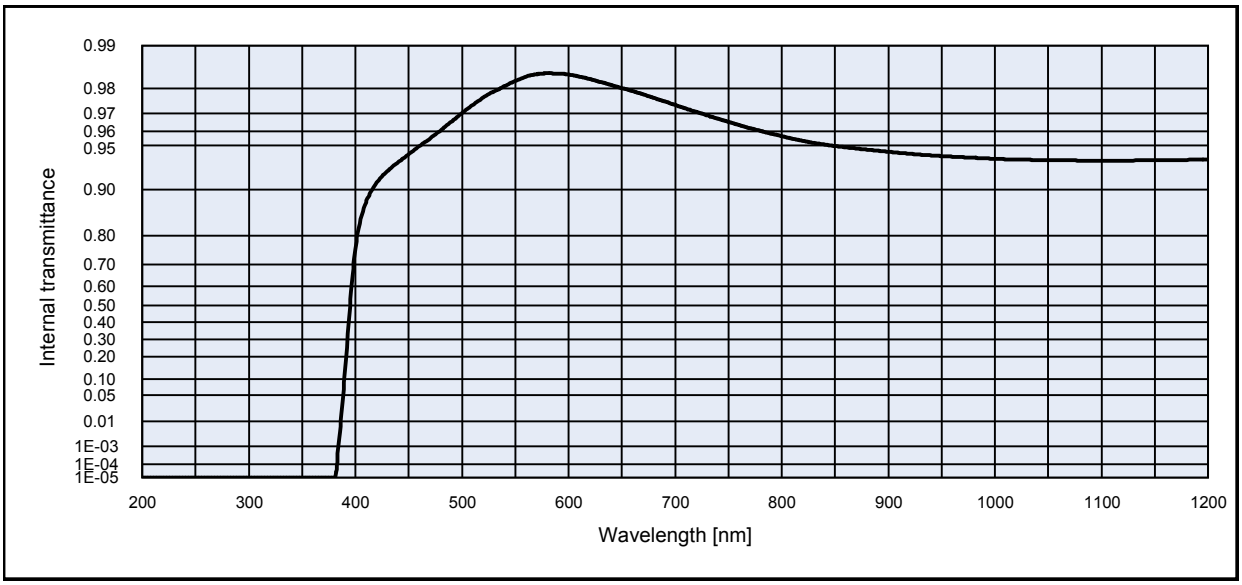
| **All data without tolerances are to be understood to be reference values. Guaranteed values are only those values listed in the section "Spectral values guaranteed".** |

**Colorimetric evaluation**

| Illuminant | A ( Planck T = 2856 K ) | | |
|---|---|---|---|
| d [mm] | 1 | 2 | 3 |
| x | 0.448 | 0.449 | 0.450 |
| y | 0.408 | 0.409 | 0.410 |
| Y | 91 | 91 | 90 |
| $\lambda_d$ [nm] | 581 | 581 | 581 |
| $P_e$ | 0.01 | 0.02 | 0.03 |

| Illuminant | Planck T = 3200 K | | |
|---|---|---|---|
| d [mm] | 1 | 2 | 3 |
| x | 0.424 | 0.425 | 0.426 |
| y | 0.400 | 0.401 | 0.402 |
| Y | 91 | 91 | 90 |
| $\lambda_d$ [nm] | 579 | 579 | 579 |
| $P_e$ | 0.01 | 0.02 | 0.03 |

| Illuminant | D65 ( $T_c$ = 6504 K ) | | |
|---|---|---|---|
| d [mm] | 1 | 2 | 3 |
| x | 0.314 | 0.315 | 0.316 |
| y | 0.331 | 0.332 | 0.334 |
| Y | 91 | 90 | 90 |
| $\lambda_d$ [nm] | 570 | 570 | 571 |
| $P_e$ | 0.01 | 0.02 | 0.02 |



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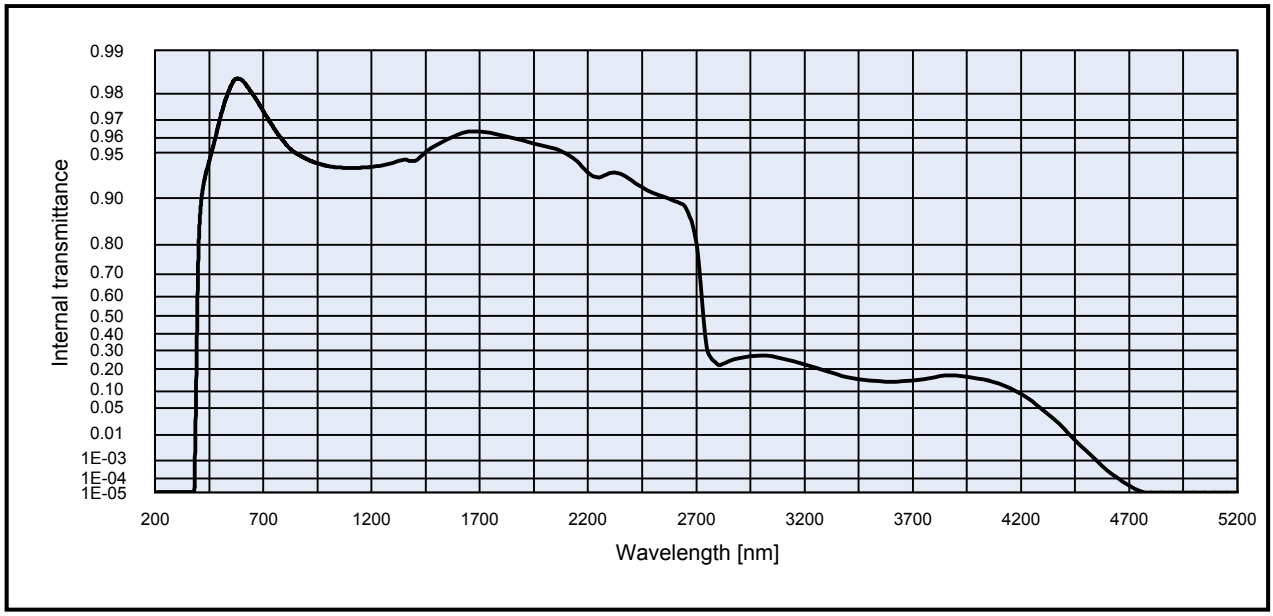


**Internal transmittance $\tau_i$ at reference thickness d [mm] = 3**
**The internal transmittance values, tabulated and graphically represented, are reference values only**

| λ [nm] | $\tau_i$ | λ [nm] | $\tau_i$ | λ [nm] | $\tau_i$ | λ [nm] | $\tau_i$ | λ [nm] | $\tau_i$ | λ [nm] | $\tau_i$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 200 | < 1.0E-05 | 500 | 9.7E-01 | 800 | 9.6E-01 | 1100 | 9.4E-01 | 2200 | 9.3E-01 | 3700 | 1.4E-01 |
| 210 | < 1.0E-05 | 510 | 9.7E-01 | 810 | 9.6E-01 | 1110 | 9.4E-01 | 2250 | 9.3E-01 | 3750 | 1.5E-01 |
| 220 | < 1.0E-05 | 520 | 9.8E-01 | 820 | 9.5E-01 | 1120 | 9.4E-01 | 2300 | 9.3E-01 | 3800 | 1.6E-01 |
| 230 | < 1.0E-05 | 530 | 9.8E-01 | 830 | 9.5E-01 | 1130 | 9.4E-01 | 2350 | 9.3E-01 | 3850 | 1.7E-01 |
| 240 | < 1.0E-05 | 540 | 9.8E-01 | 840 | 9.5E-01 | 1140 | 9.4E-01 | 2400 | 9.2E-01 | 3900 | 1.7E-01 |
| 250 | < 1.0E-05 | 550 | 9.8E-01 | 850 | 9.5E-01 | 1150 | 9.4E-01 | 2450 | 9.1E-01 | 3950 | 1.6E-01 |
| 260 | < 1.0E-05 | 560 | 9.8E-01 | 860 | 9.5E-01 | 1160 | 9.4E-01 | 2500 | 9.1E-01 | 4000 | 1.5E-01 |
| 270 | < 1.0E-05 | 570 | 9.8E-01 | 870 | 9.5E-01 | 1170 | 9.4E-01 | 2550 | 9.0E-01 | 4050 | 1.4E-01 |
| 280 | < 1.0E-05 | 580 | 9.8E-01 | 880 | 9.5E-01 | 1180 | 9.4E-01 | 2600 | 9.0E-01 | 4100 | 1.3E-01 |
| 290 | < 1.0E-05 | 590 | 9.8E-01 | 890 | 9.5E-01 | 1190 | 9.4E-01 | 2650 | 8.8E-01 | 4150 | 1.1E-01 |
| 300 | < 1.0E-05 | 600 | 9.8E-01 | 900 | 9.4E-01 | 1200 | 9.4E-01 | 2700 | 8.0E-01 | 4200 | 9.2E-02 |
| 310 | < 1.0E-05 | 610 | 9.8E-01 | 910 | 9.4E-01 | 1250 | 9.4E-01 | 2750 | 3.2E-01 | 4250 | 6.8E-02 |
| 320 | < 1.0E-05 | 620 | 9.8E-01 | 920 | 9.4E-01 | 1300 | 9.4E-01 | 2800 | 2.2E-01 | 4300 | 4.6E-02 |
| 330 | < 1.0E-05 | 630 | 9.8E-01 | 930 | 9.4E-01 | 1350 | 9.4E-01 | 2850 | 2.4E-01 | 4350 | 2.9E-02 |
| 340 | < 1.0E-05 | 640 | 9.8E-01 | 940 | 9.4E-01 | 1400 | 9.4E-01 | 2900 | 2.6E-01 | 4400 | 1.6E-02 |
| 350 | < 1.0E-05 | 650 | 9.8E-01 | 950 | 9.4E-01 | 1450 | 9.5E-01 | 2950 | 2.7E-01 | 4450 | 6.9E-03 |
| 360 | < 1.0E-05 | 660 | 9.8E-01 | 960 | 9.4E-01 | 1500 | 9.6E-01 | 3000 | 2.7E-01 | 4500 | 2.8E-03 |
| 370 | < 1.0E-05 | 670 | 9.8E-01 | 970 | 9.4E-01 | 1550 | 9.6E-01 | 3050 | 2.7E-01 | 4550 | 9.9E-04 |
| 380 | < 1.0E-05 | 680 | 9.8E-01 | 980 | 9.4E-01 | 1600 | 9.6E-01 | 3100 | 2.6E-01 | 4600 | 3.0E-04 |
| 390 | 1.1E-01 | 690 | 9.8E-01 | 990 | 9.4E-01 | 1650 | 9.6E-01 | 3150 | 2.4E-01 | 4650 | 9.9E-05 |
| 400 | 7.6E-01 | 700 | 9.7E-01 | 1000 | 9.4E-01 | 1700 | 9.6E-01 | 3200 | 2.2E-01 | 4700 | 3.3E-05 |
| 410 | 8.8E-01 | 710 | 9.7E-01 | 1010 | 9.4E-01 | 1750 | 9.6E-01 | 3250 | 2.1E-01 | 4750 | 1.2E-05 |
| 420 | 9.1E-01 | 720 | 9.7E-01 | 1020 | 9.4E-01 | 1800 | 9.6E-01 | 3300 | 1.9E-01 | 4800 | < 1.0E-05 |
| 430 | 9.3E-01 | 730 | 9.7E-01 | 1030 | 9.4E-01 | 1850 | 9.6E-01 | 3350 | 1.7E-01 | 4850 | < 1.0E-05 |
| 440 | 9.3E-01 | 740 | 9.7E-01 | 1040 | 9.4E-01 | 1900 | 9.6E-01 | 3400 | 1.6E-01 | 4900 | < 1.0E-05 |
| 450 | 9.4E-01 | 750 | 9.7E-01 | 1050 | 9.4E-01 | 1950 | 9.6E-01 | 3450 | 1.5E-01 | 4950 | < 1.0E-05 |
| 460 | 9.5E-01 | 760 | 9.6E-01 | 1060 | 9.4E-01 | 2000 | 9.5E-01 | 3500 | 1.4E-01 | 5000 | < 1.0E-05 |
| 470 | 9.6E-01 | 770 | 9.6E-01 | 1070 | 9.4E-01 | 2050 | 9.5E-01 | 3550 | 1.4E-01 | 5050 | < 1.0E-05 |
| 480 | 9.6E-01 | 780 | 9.6E-01 | 1080 | 9.4E-01 | 2100 | 9.5E-01 | 3600 | 1.4E-01 | 5100 | < 1.0E-05 |
| 490 | 9.7E-01 | 790 | 9.6E-01 | 1090 | 9.4E-01 | 2150 | 9.4E-01 | 3650 | 1.4E-01 | 5150 | < 1.0E-05 |