

KG3

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

| Reference thickness | |
|---------------------|---|
| d [mm] | 2 |

| Spectral values guaranteed | |
|----------------------------|--------------|
| τ_i (365 nm) | ≥ 0.86 |
| τ_i (500 nm) | ≥ 0.88 |
| τ_i (600 nm) | ≥ 0.83 |
| τ_i (700 nm) | ≤ 0.55 |
| τ_i (800 nm) | ≤ 0.14 |
| τ_i (900 nm) | ≤ 0.03 |
| τ_i (1060 nm) | ≤ 0.001 |
| τ_i (2200 nm) | ≤ 0.01 |

| Refractive index n | | |
|--------------------|---------|------|
| λ [nm] | Element | n |
| 365 | Hg | 1.53 |
| 587.6 | He | 1.51 |
| | | |
| | | |

| Density | |
|-----------------------------|------|
| ρ [g/cm ³] | 2.52 |

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

| Chemical resistance | |
|---------------------|-----|
| FR class | 0 |
| SR class | 2.0 |
| AR class | 4.0 |

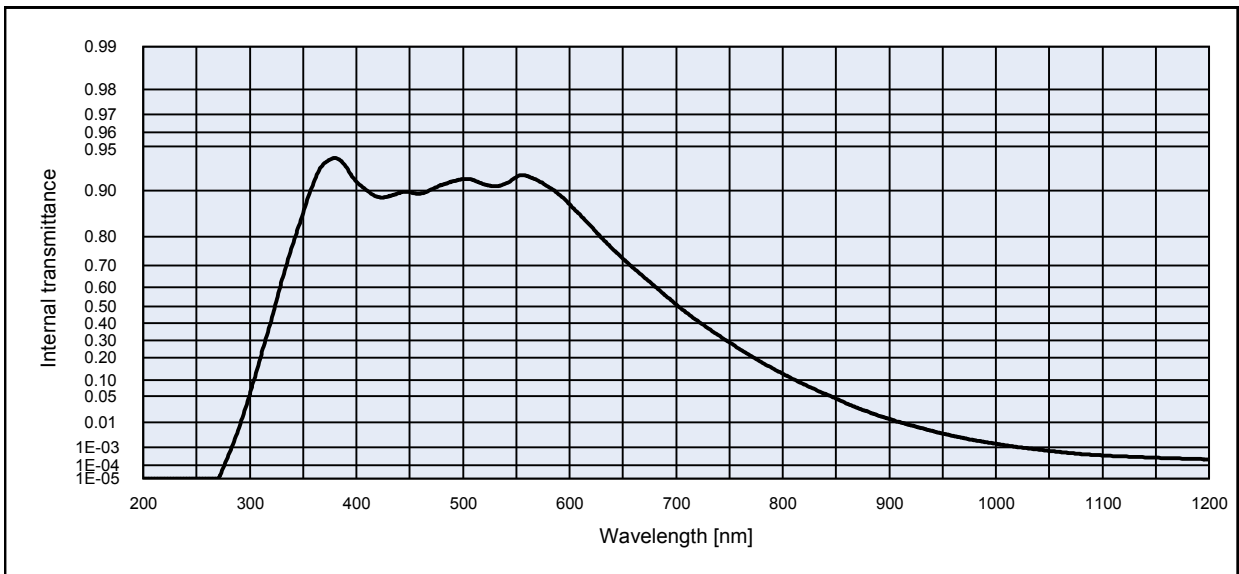
| Transformation temperature | |
|----------------------------|-----|
| T_g [°C] | 581 |

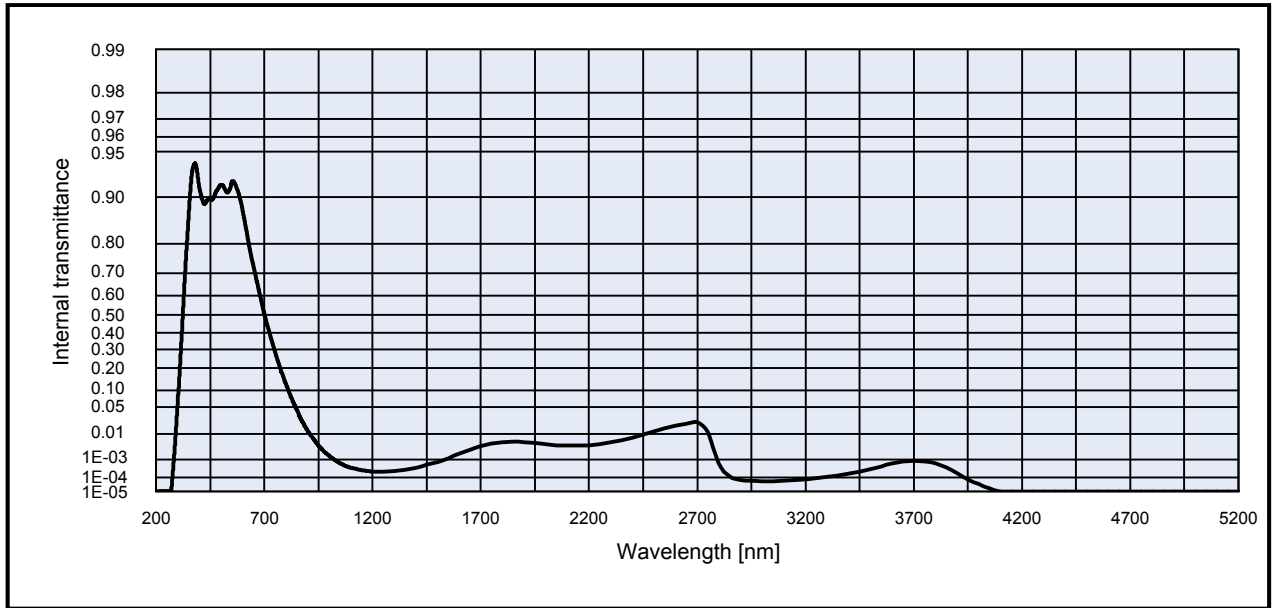
| Thermal expansion | |
|--|-----|
| $\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K] | 5.3 |
| $\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K] | 6.1 |
| $\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K] | |

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

| Notes |
|---|
| Ionically colored glass |
| Short pass filter |
| Heat protection filter |
| |
| [!] |
| Long-term changes in the polished surface are possible under some circumstances |
| V |
| Transmission changes are possible under the action of intense ultraviolet radiation |
| 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) | | | Illuminant | Planck T = 3200 K | | | Illuminant | D65 (T _c = 6504 K) | | | |
| | d [mm] | 1 | 2 | | 3 | d [mm] | 1 | | 2 | 3 | d [mm] | 1 |
| x | 0.442 | 0.437 | 0.432 | x | 0.418 | 0.413 | 0.409 | x | 0.309 | 0.306 | 0.303 | |
| y | 0.410 | 0.413 | 0.416 | y | 0.401 | 0.404 | 0.406 | y | 0.330 | 0.332 | 0.333 | |
| Y | 86 | 81 | 77 | Y | 87 | 82 | 77 | Y | 87 | 82 | 78 | |
| λ_d [nm] | 504 | 505 | 505 | λ_d [nm] | 503 | 503 | 503 | λ_d [nm] | 496 | 496 | 496 | |
| P _e | 0.01 | 0.02 | 0.04 | P _e | 0.01 | 0.02 | 0.04 | P _e | 0.01 | 0.02 | 0.03 | |





Internal transmittance τ_i at reference thickness d [mm] = 2
The internal transmittance values, tabulated and graphically represented, are reference values only

| λ [nm] | τ_i | λ [nm] | τ_i | λ [nm] | τ_i | λ [nm] | τ_i | λ [nm] | τ_i | λ [nm] | τ_i |
|----------------|-----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|-----------|
| 200 | < 1.0E-05 | 500 | 9.2E-01 | 800 | 1.3E-01 | 1100 | 3.8E-04 | 2200 | 4.0E-03 | 3700 | 8.7E-04 |
| 210 | < 1.0E-05 | 510 | 9.2E-01 | 810 | 1.0E-01 | 1110 | 3.5E-04 | 2250 | 4.4E-03 | 3750 | 7.9E-04 |
| 220 | < 1.0E-05 | 520 | 9.1E-01 | 820 | 8.4E-02 | 1120 | 3.3E-04 | 2300 | 5.1E-03 | 3800 | 6.3E-04 |
| 230 | < 1.0E-05 | 530 | 9.1E-01 | 830 | 6.9E-02 | 1130 | 3.1E-04 | 2350 | 6.2E-03 | 3850 | 4.2E-04 |
| 240 | < 1.0E-05 | 540 | 9.1E-01 | 840 | 5.5E-02 | 1140 | 2.9E-04 | 2400 | 7.7E-03 | 3900 | 1.9E-04 |
| 250 | < 1.0E-05 | 550 | 9.2E-01 | 850 | 4.4E-02 | 1150 | 2.8E-04 | 2450 | 9.5E-03 | 3950 | 7.8E-05 |
| 260 | < 1.0E-05 | 560 | 9.2E-01 | 860 | 3.4E-02 | 1160 | 2.7E-04 | 2500 | 1.2E-02 | 4000 | 3.6E-05 |
| 270 | < 1.0E-05 | 570 | 9.1E-01 | 870 | 2.7E-02 | 1170 | 2.5E-04 | 2550 | 1.5E-02 | 4050 | 1.8E-05 |
| 280 | 4.0E-04 | 580 | 9.1E-01 | 880 | 2.1E-02 | 1180 | 2.4E-04 | 2600 | 1.8E-02 | 4100 | < 1.0E-05 |
| 290 | 6.9E-03 | 590 | 8.9E-01 | 890 | 1.6E-02 | 1190 | 2.3E-04 | 2650 | 2.0E-02 | 4150 | < 1.0E-05 |
| 300 | 5.5E-02 | 600 | 8.8E-01 | 900 | 1.3E-02 | 1200 | 2.3E-04 | 2700 | 2.1E-02 | 4200 | < 1.0E-05 |
| 310 | 2.0E-01 | 610 | 8.6E-01 | 910 | 1.0E-02 | 1250 | 2.2E-04 | 2750 | 1.1E-02 | 4250 | < 1.0E-05 |
| 320 | 4.1E-01 | 620 | 8.3E-01 | 920 | 8.1E-03 | 1300 | 2.4E-04 | 2800 | 6.5E-04 | 4300 | < 1.0E-05 |
| 330 | 6.3E-01 | 630 | 8.0E-01 | 930 | 6.5E-03 | 1350 | 2.9E-04 | 2850 | 1.2E-04 | 4350 | < 1.0E-05 |
| 340 | 7.7E-01 | 640 | 7.6E-01 | 940 | 5.1E-03 | 1400 | 3.8E-04 | 2900 | 6.9E-05 | 4400 | < 1.0E-05 |
| 350 | 8.6E-01 | 650 | 7.3E-01 | 950 | 4.0E-03 | 1450 | 5.4E-04 | 2950 | 6.0E-05 | 4450 | < 1.0E-05 |
| 360 | 9.1E-01 | 660 | 6.9E-01 | 960 | 3.2E-03 | 1500 | 7.6E-04 | 3000 | 5.8E-05 | 4500 | < 1.0E-05 |
| 370 | 9.3E-01 | 670 | 6.5E-01 | 970 | 2.6E-03 | 1550 | 1.2E-03 | 3050 | 5.8E-05 | 4550 | < 1.0E-05 |
| 380 | 9.4E-01 | 680 | 6.1E-01 | 980 | 2.1E-03 | 1600 | 1.8E-03 | 3100 | 6.1E-05 | 4600 | < 1.0E-05 |
| 390 | 9.3E-01 | 690 | 5.6E-01 | 990 | 1.8E-03 | 1650 | 2.7E-03 | 3150 | 6.7E-05 | 4650 | < 1.0E-05 |
| 400 | 9.1E-01 | 700 | 5.1E-01 | 1000 | 1.5E-03 | 1700 | 3.8E-03 | 3200 | 7.6E-05 | 4700 | < 1.0E-05 |
| 410 | 9.0E-01 | 710 | 4.6E-01 | 1010 | 1.2E-03 | 1750 | 4.7E-03 | 3250 | 8.9E-05 | 4750 | < 1.0E-05 |
| 420 | 8.9E-01 | 720 | 4.2E-01 | 1020 | 1.0E-03 | 1800 | 5.2E-03 | 3300 | 1.1E-04 | 4800 | < 1.0E-05 |
| 430 | 8.9E-01 | 730 | 3.7E-01 | 1030 | 8.9E-04 | 1850 | 5.4E-03 | 3350 | 1.4E-04 | 4850 | < 1.0E-05 |
| 440 | 9.0E-01 | 740 | 3.3E-01 | 1040 | 7.6E-04 | 1900 | 5.2E-03 | 3400 | 1.7E-04 | 4900 | < 1.0E-05 |
| 450 | 9.0E-01 | 750 | 2.9E-01 | 1050 | 6.7E-04 | 1950 | 4.9E-03 | 3450 | 2.2E-04 | 4950 | < 1.0E-05 |
| 460 | 9.0E-01 | 760 | 2.5E-01 | 1060 | 5.8E-04 | 2000 | 4.4E-03 | 3500 | 3.1E-04 | 5000 | < 1.0E-05 |
| 470 | 9.0E-01 | 770 | 2.1E-01 | 1070 | 5.1E-04 | 2050 | 4.1E-03 | 3550 | 4.5E-04 | 5050 | < 1.0E-05 |
| 480 | 9.1E-01 | 780 | 1.8E-01 | 1080 | 4.5E-04 | 2100 | 3.9E-03 | 3600 | 6.2E-04 | 5100 | < 1.0E-05 |
| 490 | 9.1E-01 | 790 | 1.5E-01 | 1090 | 4.1E-04 | 2150 | 3.9E-03 | 3650 | 7.9E-04 | 5150 | < 1.0E-05 |