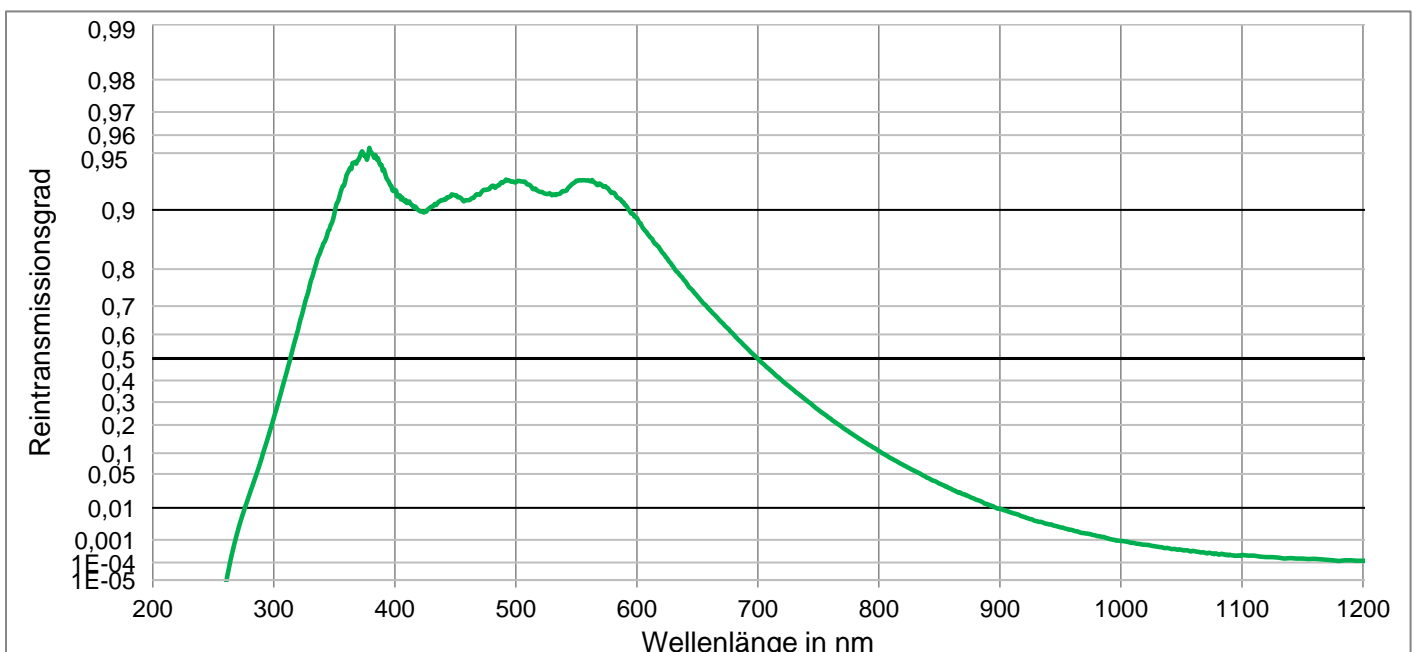
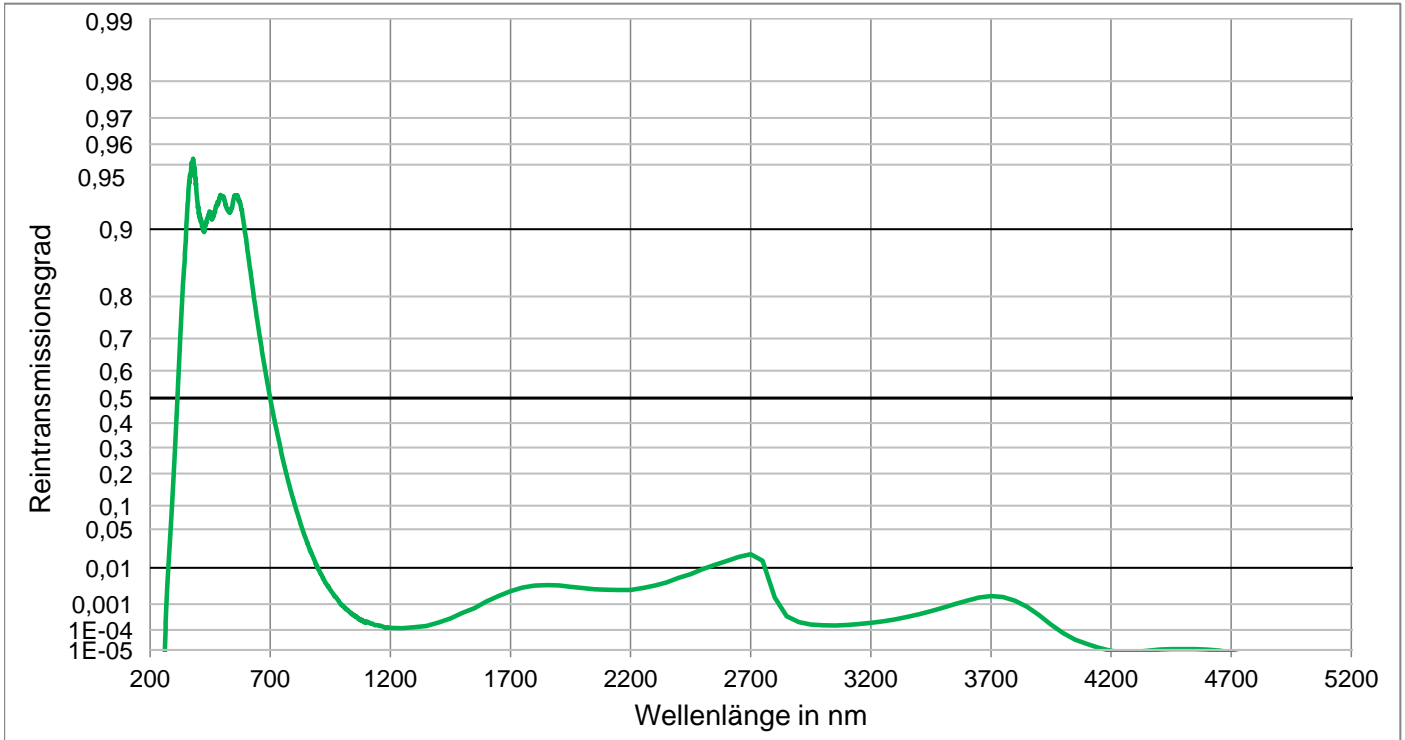


## KG3

| Optische Eigenschaften         |                            | Mechanische Eigenschaften                                    |  | Farbmetrische Eigenschaften   |             |                                |
|--------------------------------|----------------------------|--|--|---|-------------|--------------------------------|
| <b>Reflexionsfaktor</b>        |                            | <b>Referenzdicke</b>   |  | 1 mm      2 mm      3 mm  |             |                                |
| $P_d = 0,920$                  |                            | $d = 2,00 \text{ mm}$  |  | Illuminant D65  | x           | 0,309      0,306      0,303    |
| <b>Spektrale Garantiewerte</b> |                            | <b>Dichte</b>  |  |   | y           | 0,330      0,332      0,333    |
| $\tau_i$ (365 nm)              | $\geq 0,86$                | $\rho = 2,52 \text{ g/cm}^3$                                 |  |   | Y           | 87,1      82,4      78,1       |
| $\tau_i$ (500 nm)              | $\geq 0,88$                | <b>Knoophärte</b>  |  |   | $\lambda_d$ | 496 nm      496 nm      496 nm |
| $\tau_i$ (600 nm)              | $\geq 0,83$                | $HK[0.1/20] = 442$   |  |   | $P_e$       | 0,012      0,023      0,033    |
| $\tau_i$ (700 nm)              | $\leq 0,55$                | <b>Thermische Eigenschaften</b>                              |  | Illuminant A  | x           | 0,442      0,437      0,432    |
| $\tau_i$ (800 nm)              | $\leq 0,14$                | <b>Transformationstemperatur</b>                             |  |   | y           | 0,410      0,413      0,416    |
| $\tau_i$ (900 nm)              | $\leq 0,03$                | $T_g = 581 \text{ °C}$                                       |  |   | Y           | 86,4      81,3      76,6       |
| $\tau_i$ (1060 nm)             | $\leq 0,001$               | <b>Wärmeausdehnung in <math>10^{-6}/K</math></b>             |  |   | $\lambda_d$ | 504 nm      505 nm      505 nm |
| $\tau_i$ (2200 nm)             | $\leq 0,01$                | $\alpha_{(-30^\circ C/+70^\circ C)} = 5,3$                   |  |   | $P_e$       | 0,012      0,024      0,035    |
| <b>Brechungsindizes</b>        |                            | $\alpha_{(20^\circ C/300^\circ C)} = 6,1$                    |  | <b>Bemerkungen</b>  |             |                                |
| $n_F$ (486 nm)                 | $= 1,522$                  | <b>Chemische Eigenschaften</b>                               |  | <b>UV</b>   |             |                                |
| $n_e$ (546 nm)                 | $= 1,518$                  | <b>Chemische Haltbarkeit</b>                                 |  | Transmissionsänderungen sind durch Einwirkung starker ultravioletter Strahlung möglich. |             |                                |
| $n_d$ (587,6 nm)               | $= 1,516$                  | FR Klasse = 0  |  | Ionengefärbtes Glas   |             |                                |
| <b>Sellmeierkoeffizienten</b>  |                            | SR Klasse = 2  |  | Kurzpassfilter  |             |                                |
| gültig von 400 nm bis 1600 nm  |                            | AR Klasse = 4  |  | Wärmeschutzfilter   |             |                                |
| $B_1$                          | 1,1717                     | <b>Feuchtebeständigkeit</b>                                  |  | DIN ISO 23364:2022  |             |                                |
| $B_2$                          | 0,0980                     | Sehr empfindliches Glas                                      |  | <b>Disclaimer</b>   |             |                                |
| $B_3$                          | 0,0713                     | siehe Pocketkatalog "Optisches Filterglas 2024", Kapitel 5.5 |  | Alle Angaben ohne Toleranzen sind als Richtwerte zu betrachten.                         |             |                                |
| $C_1$                          | 6,324E-03 $\mu\text{m}^2$  |  |  |   |             |                                |
| $C_2$                          | 3,1092E-02 $\mu\text{m}^2$ |  |  |   |             |                                |
| $C_3$                          | 10,066 $\mu\text{m}^2$     |  |  |   |             |                                |
| <b>Innere Qualität</b>         |                            |  |  |   |             |                                |
| Blasenklasse                   | 3                          |  |  |   |             |                                |



KG3



Reintransmissionsgrad  $\tau_i$  bei der Referenzdicke  
 Die Reintransmissionsgrade, tabellarisch und graphisch, sind als Richtwerte zu verstehen.

| $\lambda$ /nm | $\tau_i$    | $\lambda$ /nm | $\tau_i$  | $\lambda$ /nm | $\tau_i$  | $\lambda$ /nm | $\tau_i$  | $\lambda$ /nm | $\tau_i$  | $\lambda$ /nm | $\tau_i$    |
|---------------|-------------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-------------|
| 200           | < 1,000E-05 | 500           | 9,282E-01 | 800           | 1,066E-01 | 1100          | 2,334E-04 | 2200          | 2,727E-03 | 3700          | 1,822E-03   |
| 210           | < 1,000E-05 | 510           | 9,265E-01 | 810           | 8,548E-02 | 1110          | 2,163E-04 | 2250          | 3,103E-03 | 3750          | 1,693E-03   |
| 220           | < 1,000E-05 | 520           | 9,194E-01 | 820           | 6,913E-02 | 1120          | 1,828E-04 | 2300          | 3,642E-03 | 3800          | 1,292E-03   |
| 230           | < 1,000E-05 | 530           | 9,162E-01 | 830           | 5,533E-02 | 1130          | 1,729E-04 | 2350          | 4,394E-03 | 3850          | 8,111E-04   |
| 240           | < 1,000E-05 | 540           | 9,202E-01 | 840           | 4,313E-02 | 1140          | 1,649E-04 | 2400          | 5,839E-03 | 3900          | 4,055E-04   |
| 250           | < 1,000E-05 | 550           | 9,298E-01 | 850           | 3,387E-02 | 1150          | 1,586E-04 | 2450          | 7,150E-03 | 3950          | 1,710E-04   |
| 260           | < 1,000E-05 | 560           | 9,303E-01 | 860           | 2,668E-02 | 1160          | 1,510E-04 | 2500          | 9,398E-03 | 4000          | 7,230E-05   |
| 270           | 1,919E-03   | 570           | 9,267E-01 | 870           | 2,066E-02 | 1170          | 1,379E-04 | 2550          | 1,160E-02 | 4050          | 3,512E-05   |
| 280           | 2,114E-02   | 580           | 9,189E-01 | 880           | 1,585E-02 | 1180          | 1,201E-04 | 2600          | 1,403E-02 | 4100          | 2,115E-05   |
| 290           | 8,698E-02   | 590           | 9,059E-01 | 890           | 1,195E-02 | 1190          | 1,309E-04 | 2650          | 1,687E-02 | 4150          | 1,291E-05   |
| 300           | 2,288E-01   | 600           | 8,899E-01 | 900           | 9,471E-03 | 1200          | 1,227E-04 | 2700          | 1,917E-02 | 4200          | < 1,000E-05 |
| 310           | 4,257E-01   | 610           | 8,645E-01 | 910           | 7,401E-03 | 1250          | 1,188E-04 | 2750          | 1,420E-02 | 4250          | < 1,000E-05 |
| 320           | 6,184E-01   | 620           | 8,381E-01 | 920           | 5,677E-03 | 1300          | 1,322E-04 | 2800          | 1,641E-03 | 4300          | < 1,000E-05 |
| 330           | 7,634E-01   | 630           | 8,054E-01 | 930           | 4,323E-03 | 1350          | 1,495E-04 | 2850          | 3,690E-04 | 4350          | < 1,000E-05 |
| 340           | 8,445E-01   | 640           | 7,704E-01 | 940           | 3,458E-03 | 1400          | 2,072E-04 | 2900          | 2,146E-04 | 4400          | 1,042E-05   |
| 350           | 8,948E-01   | 650           | 7,303E-01 | 950           | 2,746E-03 | 1450          | 3,025E-04 | 2950          | 1,725E-04 | 4450          | 1,106E-05   |
| 360           | 9,343E-01   | 660           | 6,891E-01 | 960           | 2,212E-03 | 1500          | 4,975E-04 | 3000          | 1,586E-04 | 4500          | 1,106E-05   |
| 370           | 9,455E-01   | 670           | 6,451E-01 | 970           | 1,740E-03 | 1550          | 7,248E-04 | 3050          | 1,571E-04 | 4550          | 1,106E-05   |
| 380           | 9,509E-01   | 680           | 5,988E-01 | 980           | 1,401E-03 | 1600          | 1,222E-03 | 3100          | 1,649E-04 | 4600          | 1,042E-05   |
| 390           | 9,379E-01   | 690           | 5,497E-01 | 990           | 1,092E-03 | 1650          | 1,812E-03 | 3150          | 1,794E-04 | 4650          | < 1,000E-05 |
| 400           | 9,217E-01   | 700           | 4,982E-01 | 1000          | 9,072E-04 | 1700          | 2,542E-03 | 3200          | 2,000E-04 | 4700          | < 1,000E-05 |
| 410           | 9,079E-01   | 710           | 4,482E-01 | 1010          | 7,715E-04 | 1750          | 3,228E-03 | 3250          | 2,324E-04 | 4750          | < 1,000E-05 |
| 420           | 8,992E-01   | 720           | 3,989E-01 | 1020          | 6,422E-04 | 1800          | 3,652E-03 | 3300          | 2,755E-04 | 4800          | < 1,000E-05 |
| 430           | 9,037E-01   | 730           | 3,535E-01 | 1030          | 5,357E-04 | 1850          | 3,770E-03 | 3350          | 3,430E-04 | 4850          | < 1,000E-05 |
| 440           | 9,112E-01   | 740           | 3,084E-01 | 1040          | 4,512E-04 | 1900          | 3,681E-03 | 3400          | 4,356E-04 | 4900          | < 1,000E-05 |
| 450           | 9,159E-01   | 750           | 2,645E-01 | 1050          | 3,972E-04 | 1950          | 3,366E-03 | 3450          | 5,699E-04 | 4950          | < 1,000E-05 |
| 460           | 9,109E-01   | 760           | 2,263E-01 | 1060          | 3,472E-04 | 2000          | 3,121E-03 | 3500          | 7,511E-04 | 5000          | < 1,000E-05 |
| 470           | 9,167E-01   | 770           | 1,901E-01 | 1070          | 2,827E-04 | 2050          | 2,861E-03 | 3550          | 9,992E-04 | 5050          | < 1,000E-05 |
| 480           | 9,250E-01   | 780           | 1,584E-01 | 1080          | 2,515E-04 | 2100          | 2,785E-03 | 3600          | 1,302E-03 | 5100          | < 1,000E-05 |
| 490           | 9,288E-01   | 790           | 1,302E-01 | 1090          | 2,367E-04 | 2150          | 2,752E-03 | 3650          | 1,630E-03 | 5150          | < 1,000E-05 |