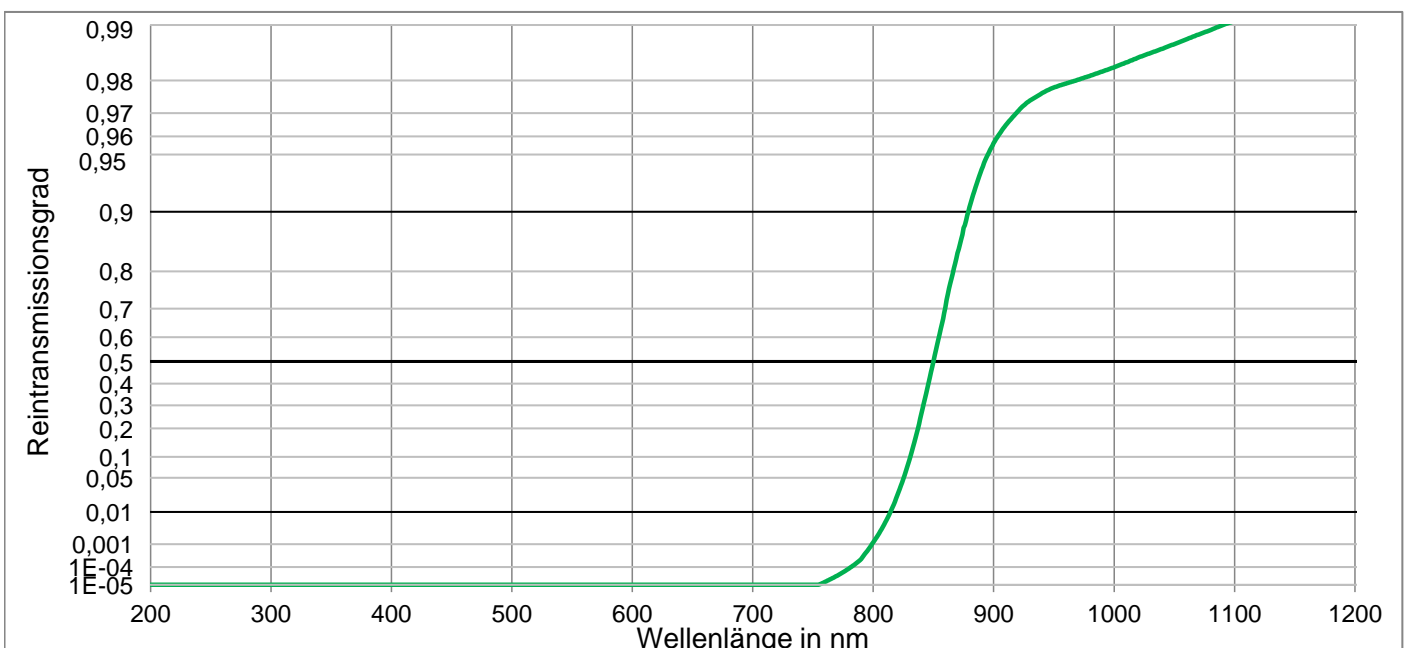
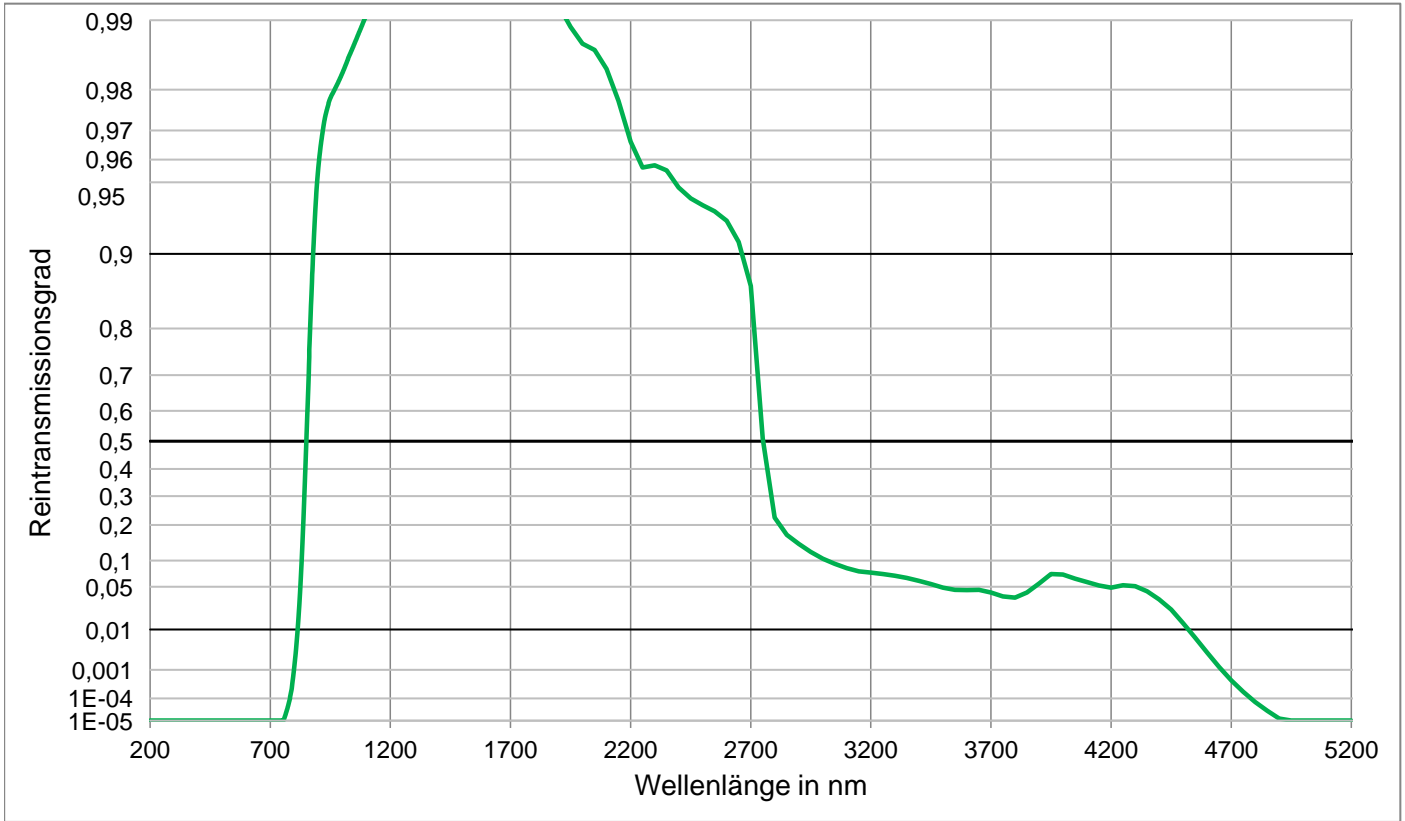


## RG850

| Optische Eigenschaften                             | Mechanische Eigenschaften                                    | Farbmetrische Eigenschaften                                     |
|--|--|---|
| <b>Reflexionsfaktor</b>                            | <b>Referenzdicke</b>   | 1 mm    2 mm    3 mm  |
| $P_d = 0,909$                                      | $d = 3,00 \text{ mm}$  | illuminant D65  |
| <b>Spektrale Garantiewerte (d = 3 mm)</b>          | <b>Dichte</b>  | x   |
| $\lambda_{i0,5} = 850 \text{ nm} \pm 9 \text{ nm}$ | $\rho = 2,93 \text{ g/cm}^3$                                 | y   |
| $\lambda_s (\tau_{i,U} = 1E-05) = 700 \text{ nm}$  | <b>Knoophärte</b>  | Y   |
| $\lambda_p (\tau_{i,L} = 0,90) = 950 \text{ nm}$   | $HK_{[0,1/20]} = 441$  | $\lambda_d$   |
| $\lambda_p (\tau_{i,L} = 0,97) = 1200 \text{ nm}$  |  | $P_e$   |
|  |  | illuminant A  |
|  |  | x   |
|  |  | y   |
|  |  | Y   |
|  |  | $\lambda_d$   |
|  |  | $P_e$   |
| <b>Brechungsindizes</b>                            | <b>Thermische Eigenschaften</b>                              | <b>Bemerkungen</b>  |
| $n_d (587,6 \text{ nm}) = 1,56$                    | <b>Transformationstemperatur</b>                             |   |
| $n_s (852 \text{ nm}) = 1,55$                      | $T_g = 554 \text{ }^\circ\text{C}$                           | Anlaufglas  |
| $n_t (1014 \text{ nm}) = 1,55$                     | <b>Wärmeausdehnung in <math>10^{-6}/\text{K}</math></b>      | Langpassfilter  |
|  | $\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})} = 9,4$       |   |
|  | $\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 10,4$       |   |
|  |  |   |
| <b>Sellmeierkoeffizienten</b>                      | <b>Temperaturkoeffizient</b>                                 | DIN ISO 23364:2022  |
| auf Anfrage  | $Tk = 0,24 \text{ nm/K}$                                     | <b>Disclaimer</b>   |
|  | <b>Chemische Eigenschaften</b>                               | Alle Angaben ohne Toleranzen sind als Richtwerte zu betrachten. |
|  | <b>Chemische Haltbarkeit</b>                                 |   |
|  | FR Klasse = 5  |   |
|  | SR Klasse = 53.4   |   |
|  | AR Klasse = 1.3  |   |
|  | <b>Feuchtebeständigkeit</b>                                  |   |
|  | Robustes Glas  |   |
| <b>Innere Qualität</b>                             | siehe Pocketkatalog "Optisches Filterglas 2024", Kapitel 5.5 |   |
| Blasenklasse 3                                     |  |   |



## RG850



**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           | < 1,0E-05   | 500           | < 1,000E-05 | 800           | 1,156E-03 | 1100          | 9,905E-01 | 2200          | 9,665E-01 | 3700          | 4,170E-02   |
| 210           | < 1,0E-05   | 510           | < 1,000E-05 | 810           | 5,250E-03 | 1110          | 9,909E-01 | 2250          | 9,567E-01 | 3750          | 3,687E-02   |
| 220           | < 1,0E-05   | 520           | < 1,000E-05 | 820           | 2,363E-02 | 1120          | 9,914E-01 | 2300          | 9,577E-01 | 3800          | 3,540E-02   |
| 230           | < 1,0E-05   | 530           | < 1,000E-05 | 830           | 9,140E-02 | 1130          | 9,918E-01 | 2350          | 9,555E-01 | 3850          | 4,188E-02   |
| 240           | < 1,0E-05   | 540           | < 1,000E-05 | 840           | 2,610E-01 | 1140          | 9,923E-01 | 2400          | 9,474E-01 | 3900          | 5,486E-02   |
| 250           | < 1,0E-05   | 550           | < 1,000E-05 | 850           | 5,003E-01 | 1150          | 9,927E-01 | 2450          | 9,414E-01 | 3950          | 7,151E-02   |
| 260           | < 1,0E-05   | 560           | < 1,000E-05 | 860           | 7,037E-01 | 1160          | 9,931E-01 | 2500          | 9,375E-01 | 4000          | 7,070E-02   |
| 270           | < 1,0E-05   | 570           | < 1,000E-05 | 870           | 8,376E-01 | 1170          | 9,935E-01 | 2550          | 9,336E-01 | 4050          | 6,328E-02   |
| 280           | < 1,0E-05   | 580           | < 1,000E-05 | 880           | 9,053E-01 | 1180          | 9,939E-01 | 2600          | 9,272E-01 | 4100          | 5,719E-02   |
| 290           | < 1,0E-05   | 590           | < 1,000E-05 | 890           | 9,399E-01 | 1190          | 9,943E-01 | 2650          | 9,108E-01 | 4150          | 5,179E-02   |
| 300           | < 1,0E-05   | 600           | < 1,000E-05 | 900           | 9,565E-01 | 1200          | 9,946E-01 | 2700          | 8,646E-01 | 4200          | 4,878E-02   |
| 310           | < 1,0E-05   | 610           | < 1,000E-05 | 910           | 9,651E-01 | 1250          | 9,960E-01 | 2750          | 5,095E-01 | 4250          | 5,219E-02   |
| 320           | < 1,000E-05 | 620           | < 1,000E-05 | 920           | 9,706E-01 | 1300          | 9,973E-01 | 2800          | 2,243E-01 | 4300          | 5,097E-02   |
| 330           | < 1,000E-05 | 630           | < 1,000E-05 | 930           | 9,743E-01 | 1350          | 9,984E-01 | 2850          | 1,689E-01 | 4350          | 4,352E-02   |
| 340           | < 1,000E-05 | 640           | < 1,000E-05 | 940           | 9,765E-01 | 1400          | 9,974E-01 | 2900          | 1,425E-01 | 4400          | 3,343E-02   |
| 350           | < 1,000E-05 | 650           | < 1,000E-05 | 950           | 9,782E-01 | 1450          | 9,984E-01 | 2950          | 1,212E-01 | 4450          | 2,305E-02   |
| 360           | < 1,000E-05 | 660           | < 1,000E-05 | 960           | 9,792E-01 | 1500          | 9,997E-01 | 3000          | 1,043E-01 | 4500          | 1,334E-02   |
| 370           | < 1,000E-05 | 670           | < 1,000E-05 | 970           | 9,802E-01 | 1550          | 9,999E-01 | 3050          | 9,268E-02 | 4550          | 6,780E-03   |
| 380           | < 1,000E-05 | 680           | < 1,000E-05 | 980           | 9,811E-01 | 1600          | 9,998E-01 | 3100          | 8,310E-02 | 4600          | 2,980E-03   |
| 390           | < 1,000E-05 | 690           | < 1,000E-05 | 990           | 9,821E-01 | 1650          | 9,986E-01 | 3150          | 7,685E-02 | 4650          | 1,211E-03   |
| 400           | < 1,000E-05 | 700           | < 1,000E-05 | 1000          | 9,830E-01 | 1700          | 9,968E-01 | 3200          | 7,425E-02 | 4700          | 4,656E-04   |
| 410           | < 1,000E-05 | 710           | < 1,000E-05 | 1010          | 9,840E-01 | 1750          | 9,950E-01 | 3250          | 7,161E-02 | 4750          | 1,803E-04   |
| 420           | < 1,000E-05 | 720           | < 1,000E-05 | 1020          | 9,850E-01 | 1800          | 9,933E-01 | 3300          | 6,837E-02 | 4800          | 7,194E-05   |
| 430           | < 1,000E-05 | 730           | < 1,000E-05 | 1030          | 9,858E-01 | 1850          | 9,922E-01 | 3350          | 6,445E-02 | 4850          | 2,958E-05   |
| 440           | < 1,000E-05 | 740           | < 1,000E-05 | 1040          | 9,865E-01 | 1900          | 9,914E-01 | 3400          | 5,946E-02 | 4900          | 1,282E-05   |
| 450           | < 1,000E-05 | 750           | < 1,000E-05 | 1050          | 9,873E-01 | 1950          | 9,893E-01 | 3450          | 5,405E-02 | 4950          | < 1,000E-05 |
| 460           | < 1,000E-05 | 760           | 1,507E-05   | 1060          | 9,880E-01 | 2000          | 9,874E-01 | 3500          | 4,881E-02 | 5000          | < 1,000E-05 |
| 470           | < 1,000E-05 | 770           | 3,444E-05   | 1070          | 9,887E-01 | 2050          | 9,865E-01 | 3550          | 4,544E-02 | 5050          | < 1,000E-05 |
| 480           | < 1,000E-05 | 780           | 8,542E-05   | 1080          | 9,894E-01 | 2100          | 9,837E-01 | 3600          | 4,510E-02 | 5100          | < 1,000E-05 |
| 490           | < 1,000E-05 | 790           | 2,412E-04   | 1090          | 9,900E-01 | 2150          | 9,776E-01 | 3650          | 4,534E-02 | 5150          | < 1,000E-05 |