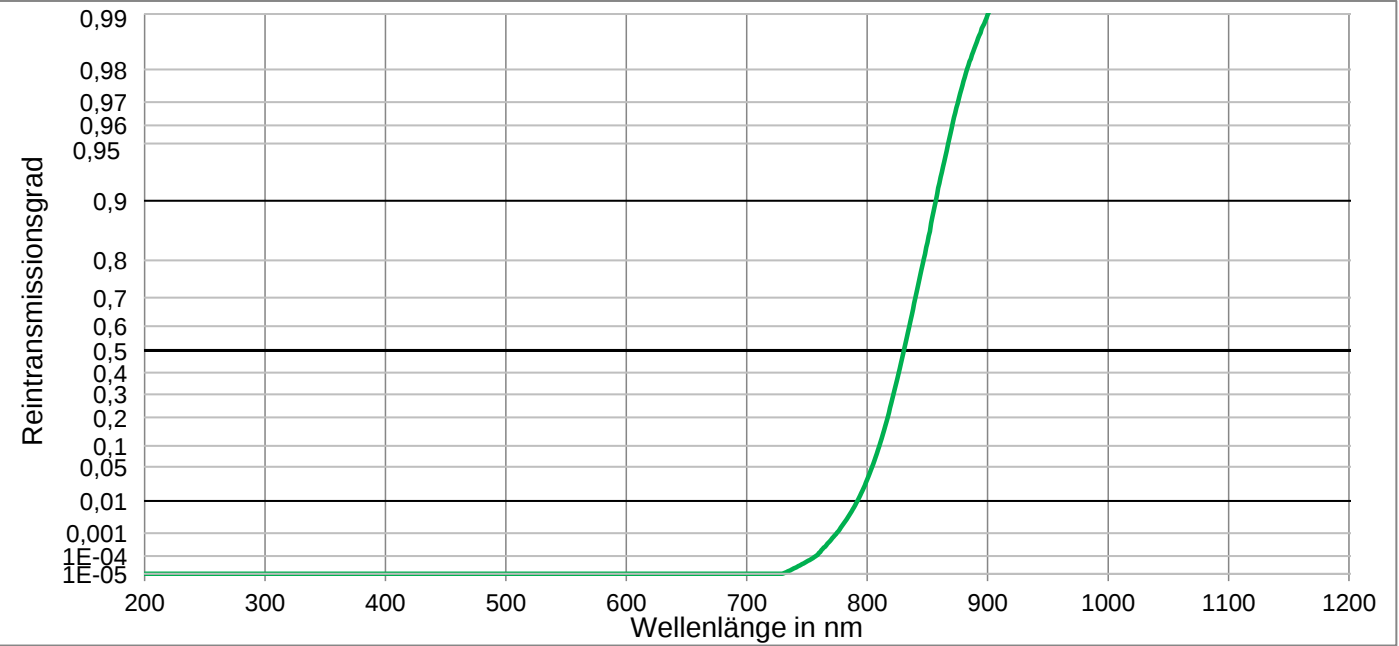
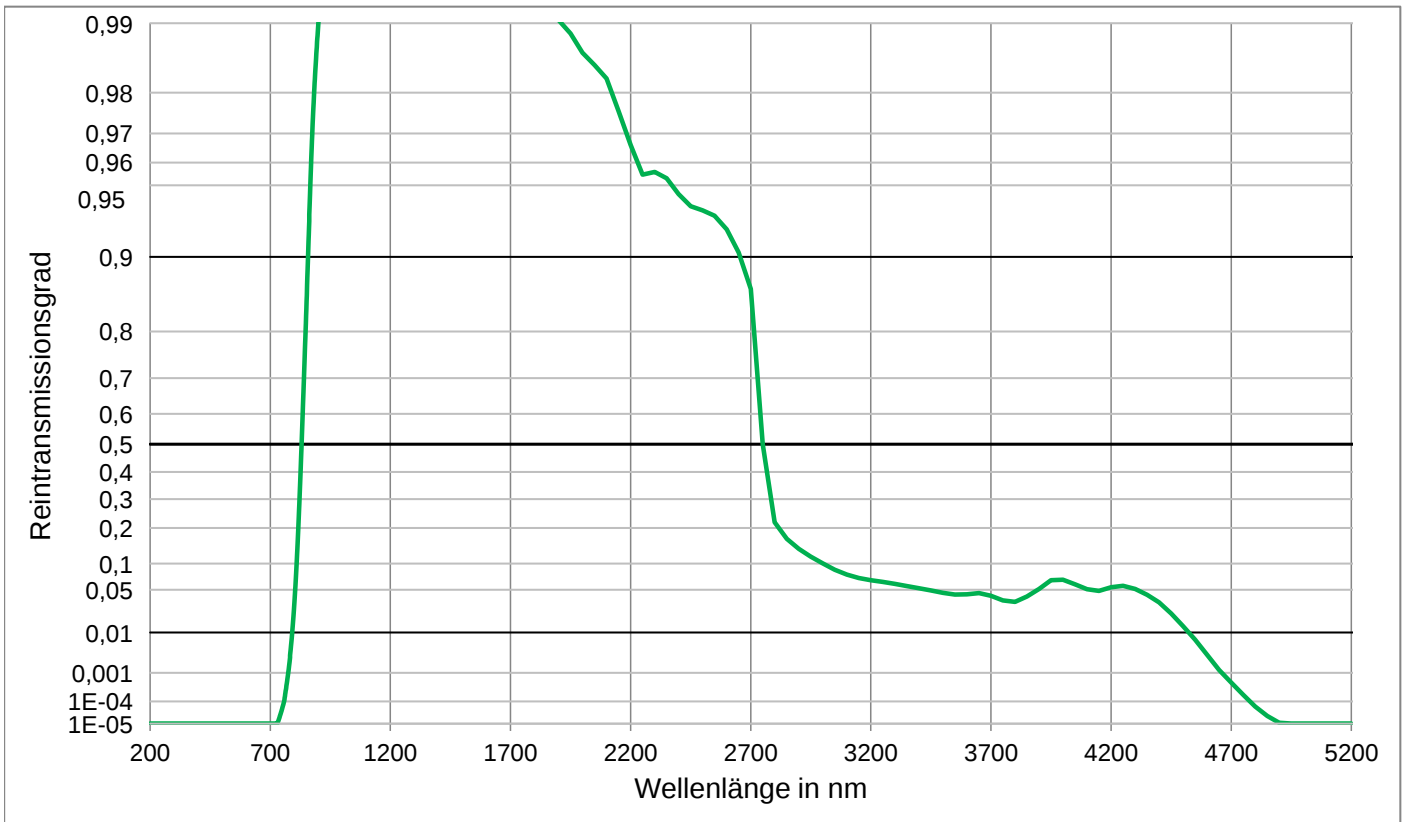


RG830

| Optische Eigenschaften                             |  | Mechanische Eigenschaften                                    |  | Farbmetrische Eigenschaften                                     |                |  |
|----------------------------------------------------|--|--------------------------------------------------------------|--|-----------------------------------------------------------------|----------------|--|
| Reflexionsfaktor                                   |  | Referenzdicke                                                |  | 1 mm      2 mm      3 mm                                        |                |  |
| P <sub>d</sub> = 0,909                             |  | d = 3,00 mm                                                  |  | Illuminant D65                                                  | x              |  |
| Spektrale Garantiewerte (d = 3 mm)                 |  | Dichte                                                       |  |                                                                 | y              |  |
| λ <sub>i 0,5</sub> = 830 nm ± 9 nm                 |  | ρ = 2,94 g/cm³                                               |  |                                                                 | Y              |  |
| λ <sub>s</sub> (τ <sub>i,U</sub> = 1E-05) = 670 nm |  | Knoophärte                                                   |  |                                                                 | λ <sub>d</sub> |  |
| λ <sub>p</sub> (τ <sub>i,L</sub> = 0,97) = 950 nm  |  | HK <sub>[0.1/20]</sub> = 436                                 |  |                                                                 | P <sub>e</sub> |  |
|                                                    |  |                                                              |  | Illuminant A                                                    | x              |  |
|                                                    |  |                                                              |  |                                                                 | y              |  |
|                                                    |  |                                                              |  |                                                                 | Y              |  |
|                                                    |  |                                                              |  |                                                                 | λ <sub>d</sub> |  |
|                                                    |  |                                                              |  |                                                                 | P <sub>e</sub> |  |
| Brechungsindizes                                   |  |                                                              |  | Bemerkungen                                                     |                |  |
| n <sub>d</sub> ( 587,6 nm) = 1,56                  |  | α <sub>(-30°C/+70°C)</sub> = 9,5                             |  |                                                                 |                |  |
| n <sub>s</sub> ( 852 nm) = 1,55                    |  | α <sub>(20°C/300°C)</sub> = 10,5                             |  |                                                                 |                |  |
| n <sub>t</sub> (1014 nm) = 1,55                    |  |                                                              |  |                                                                 |                |  |
|                                                    |  | Temperaturkoeffizient                                        |  |                                                                 |                |  |
|                                                    |  | Tk = 0,23      nm/K                                          |  |                                                                 |                |  |
| Sellmeierkoeffizienten                             |  | Chemische Eigenschaften                                      |  |                                                                 |                |  |
| auf Anfrage                                        |  | Chemische Haltbarkeit                                        |  |                                                                 |                |  |
|                                                    |  | FR Klasse = 5                                                |  |                                                                 |                |  |
|                                                    |  | SR Klasse = 53.4                                             |  |                                                                 |                |  |
|                                                    |  | AR Klasse = 1.3                                              |  |                                                                 |                |  |
|                                                    |  | Feuchtebeständigkeit                                         |  |                                                                 |                |  |
|                                                    |  | Robustes Glas                                                |  |                                                                 |                |  |
| Innere Qualität                                    |  | siehe Pocketkatalog "Optisches Filterglas 2024", Kapitel 5.5 |  | Anlaufglas                                                      |                |  |
| Blasenklasse      3                                |  |                                                              |  | Langpassfilter                                                  |                |  |
|                                                    |  |                                                              |  |                                                                 |                |  |
|                                                    |  |                                                              |  |                                                                 |                |  |
|                                                    |  |                                                              |  | DIN ISO 23364:2022                                              |                |  |
|                                                    |  |                                                              |  | Disclaimer                                                      |                |  |
|                                                    |  |                                                              |  | Alle Angaben ohne Toleranzen sind als Richtwerte zu betrachten. |                |  |



## RG830

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           | 2,968E-02 | 1100          | 9,971E-01 | 2200          | 9,664E-01 | 3700          | 4,138E-02   |
| 210           | < 1,0E-05   | 510           | < 1,000E-05 | 810           | 9,936E-02 | 1110          | 9,971E-01 | 2250          | 9,550E-01 | 3750          | 3,550E-02   |
| 220           | < 1,0E-05   | 520           | < 1,000E-05 | 820           | 2,604E-01 | 1120          | 9,972E-01 | 2300          | 9,562E-01 | 3800          | 3,400E-02   |
| 230           | < 1,0E-05   | 530           | < 1,000E-05 | 830           | 4,901E-01 | 1130          | 9,973E-01 | 2350          | 9,533E-01 | 3850          | 4,058E-02   |
| 240           | < 1,0E-05   | 540           | < 1,000E-05 | 840           | 6,987E-01 | 1140          | 9,973E-01 | 2400          | 9,455E-01 | 3900          | 5,135E-02   |
| 250           | < 1,0E-05   | 550           | < 1,000E-05 | 850           | 8,366E-01 | 1150          | 9,974E-01 | 2450          | 9,387E-01 | 3950          | 6,590E-02   |
| 260           | < 1,0E-05   | 560           | < 1,000E-05 | 860           | 9,189E-01 | 1160          | 9,975E-01 | 2500          | 9,361E-01 | 4000          | 6,660E-02   |
| 270           | < 1,0E-05   | 570           | < 1,000E-05 | 870           | 9,582E-01 | 1170          | 9,976E-01 | 2550          | 9,326E-01 | 4050          | 5,851E-02   |
| 280           | < 1,0E-05   | 580           | < 1,000E-05 | 880           | 9,768E-01 | 1180          | 9,976E-01 | 2600          | 9,232E-01 | 4100          | 5,083E-02   |
| 290           | < 1,0E-05   | 590           | < 1,000E-05 | 890           | 9,852E-01 | 1190          | 9,977E-01 | 2650          | 9,041E-01 | 4150          | 4,831E-02   |
| 300           | < 1,0E-05   | 600           | < 1,000E-05 | 900           | 9,899E-01 | 1200          | 9,978E-01 | 2700          | 8,646E-01 | 4200          | 5,371E-02   |
| 310           | < 1,0E-05   | 610           | < 1,000E-05 | 910           | 9,927E-01 | 1250          | 9,983E-01 | 2750          | 5,000E-01 | 4250          | 5,637E-02   |
| 320           | < 1,000E-05 | 620           | < 1,000E-05 | 920           | 9,943E-01 | 1300          | 9,989E-01 | 2800          | 2,183E-01 | 4300          | 5,122E-02   |
| 330           | < 1,000E-05 | 630           | < 1,000E-05 | 930           | 9,951E-01 | 1350          | 9,997E-01 | 2850          | 1,663E-01 | 4350          | 4,271E-02   |
| 340           | < 1,000E-05 | 640           | < 1,000E-05 | 940           | 9,954E-01 | 1400          | 9,985E-01 | 2900          | 1,371E-01 | 4400          | 3,328E-02   |
| 350           | < 1,000E-05 | 650           | < 1,000E-05 | 950           | 9,956E-01 | 1450          | 9,987E-01 | 2950          | 1,170E-01 | 4450          | 2,234E-02   |
| 360           | < 1,000E-05 | 660           | < 1,000E-05 | 960           | 9,958E-01 | 1500          | 9,998E-01 | 3000          | 1,002E-01 | 4500          | 1,333E-02   |
| 370           | < 1,000E-05 | 670           | < 1,000E-05 | 970           | 9,959E-01 | 1550          | 9,999E-01 | 3050          | 8,620E-02 | 4550          | 7,120E-03   |
| 380           | < 1,000E-05 | 680           | < 1,000E-05 | 980           | 9,960E-01 | 1600          | 9,997E-01 | 3100          | 7,650E-02 | 4600          | 3,120E-03   |
| 390           | < 1,000E-05 | 690           | < 1,000E-05 | 990           | 9,961E-01 | 1650          | 9,984E-01 | 3150          | 6,962E-02 | 4650          | 1,208E-03   |
| 400           | < 1,000E-05 | 700           | < 1,000E-05 | 1000          | 9,962E-01 | 1700          | 9,965E-01 | 3200          | 6,599E-02 | 4700          | 4,875E-04   |
| 410           | < 1,000E-05 | 710           | < 1,000E-05 | 1010          | 9,963E-01 | 1750          | 9,942E-01 | 3250          | 6,294E-02 | 4750          | 1,828E-04   |
| 420           | < 1,000E-05 | 720           | < 1,000E-05 | 1020          | 9,964E-01 | 1800          | 9,924E-01 | 3300          | 5,949E-02 | 4800          | 6,152E-05   |
| 430           | < 1,000E-05 | 730           | 1,025E-05   | 1030          | 9,965E-01 | 1850          | 9,911E-01 | 3350          | 5,595E-02 | 4850          | 2,366E-05   |
| 440           | < 1,000E-05 | 740           | 2,262E-05   | 1040          | 9,966E-01 | 1900          | 9,903E-01 | 3400          | 5,237E-02 | 4900          | 1,099E-05   |
| 450           | < 1,000E-05 | 750           | 5,207E-05   | 1050          | 9,967E-01 | 1950          | 9,889E-01 | 3450          | 4,889E-02 | 4950          | < 1,000E-05 |
| 460           | < 1,000E-05 | 760           | 1,421E-04   | 1060          | 9,967E-01 | 2000          | 9,866E-01 | 3500          | 4,561E-02 | 5000          | < 1,000E-05 |
| 470           | < 1,000E-05 | 770           | 5,562E-04   | 1070          | 9,968E-01 | 2050          | 9,848E-01 | 3550          | 4,294E-02 | 5050          | < 1,000E-05 |
| 480           | < 1,000E-05 | 780           | 2,044E-03   | 1080          | 9,969E-01 | 2100          | 9,826E-01 | 3600          | 4,356E-02 | 5100          | < 1,000E-05 |
| 490           | < 1,000E-05 | 790           | 7,784E-03   | 1090          | 9,970E-01 | 2150          | 9,760E-01 | 3650          | 4,528E-02 | 5150          | < 1,000E-05 |