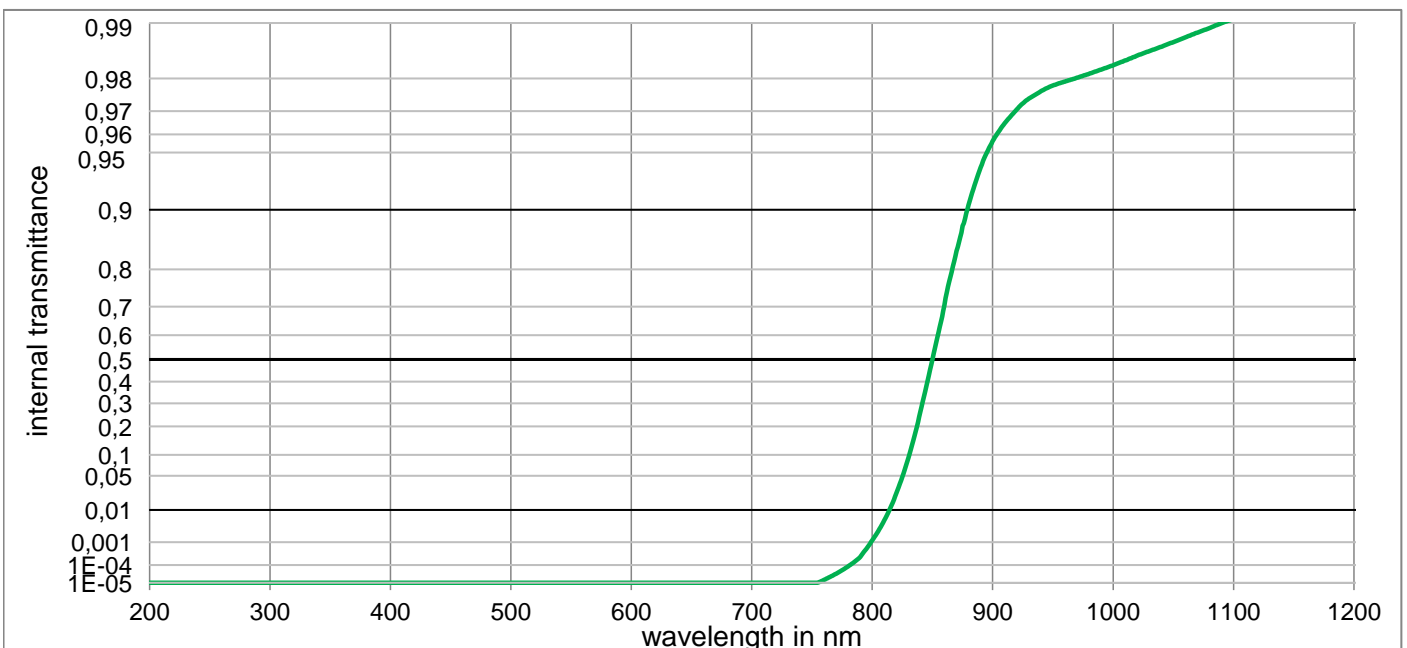
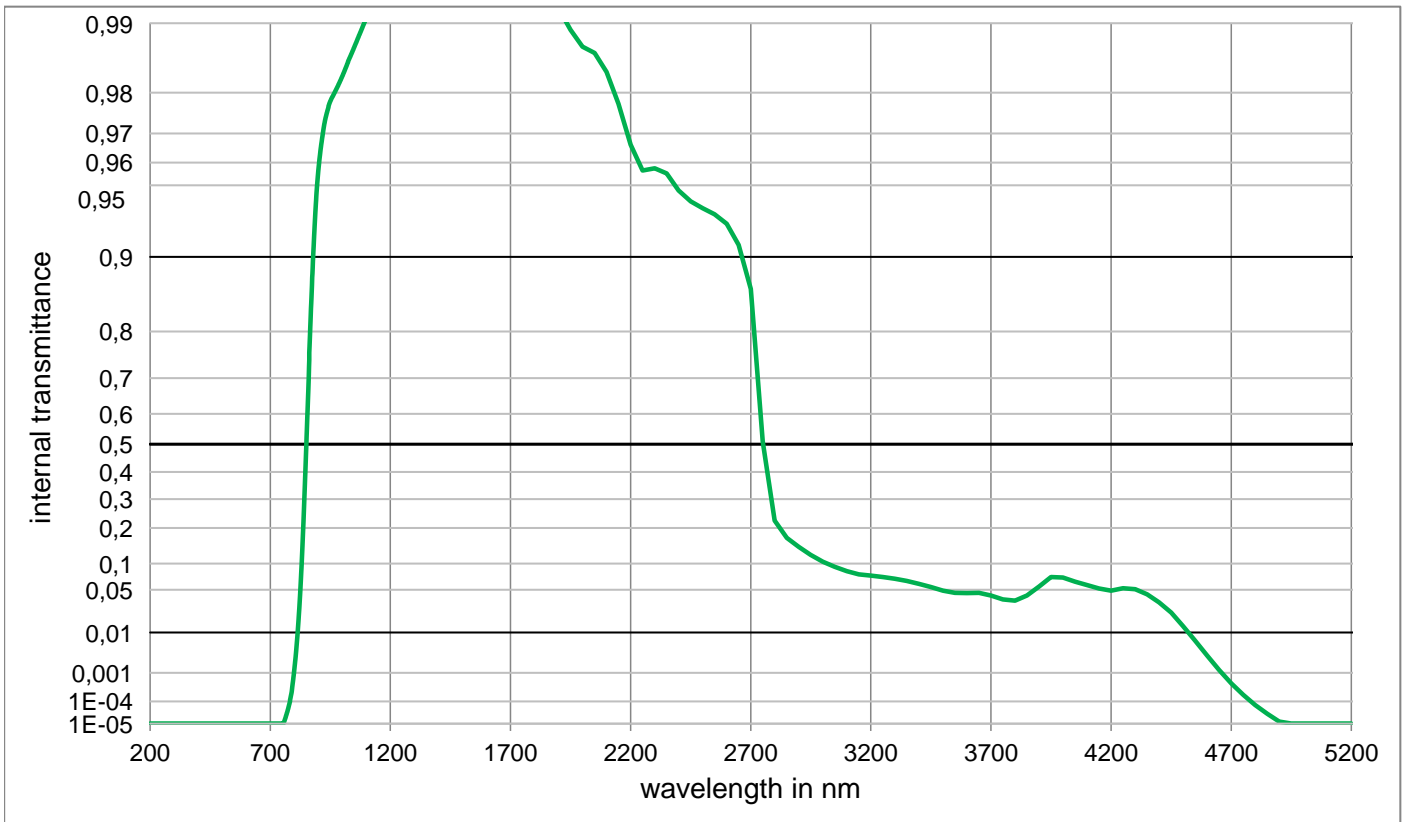


RG850

Optical properties	Mechanical properties	Colorimetric properties
Reflection factor	Reference thickness	1 mm 2 mm 3 mm
$P_d = 0,909$	$d = 3,00 \text{ mm}$	Illuminant D65 x y Y λ_d P_e
Spectral values guaranteed (d = 3 mm)	Density	
$\lambda_{i0,5} = 850 \text{ nm} \pm 9 \text{ nm}$	$\rho = 2,93 \text{ g/cm}^3$	
$\lambda_s (\tau_{i,U} = 1E-05) = 700 \text{ nm}$	Knoop hardness	
$\lambda_p (\tau_{i,L} = 0,90) = 950 \text{ nm}$	$HK_{[0,1/20]} = 441$	
$\lambda_p (\tau_{i,L} = 0,97) = 1200 \text{ nm}$		Illuminant A x y Y λ_d P_e
	Thermal properties	
	Transformation temperature	
	$T_g = 554 \text{ }^\circ\text{C}$	
	Thermal expansion in $10^{-6}/\text{K}$	
Refractive indices	$\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})} = 9,4$	Notes Stricking glass Longpass filter ISO 23364:2021 Disclaimer All data without tolerances are to be understood to be reference values.
$n_d (587,6 \text{ nm}) = 1,56$	$\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 10,4$	
$n_s (852 \text{ nm}) = 1,55$		
$n_t (1014 \text{ nm}) = 1,55$	Temperature coefficient	
	$Tk = 0,24 \text{ nm/K}$	
Sellmeier coefficients	Chemical properties	
on request	Chemical resistance	
	FR class = 5	
	SR class = 53.4	
	AR class = 1.3	
	Resistance against humidity	
	Robust glass	
Internal quality	see pocket catalogue "Optical Filter Glass 2024", chapter 5.5	
Bubble class 3		



RG850



Internal transmittance τ_i at reference thickness
 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	< 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