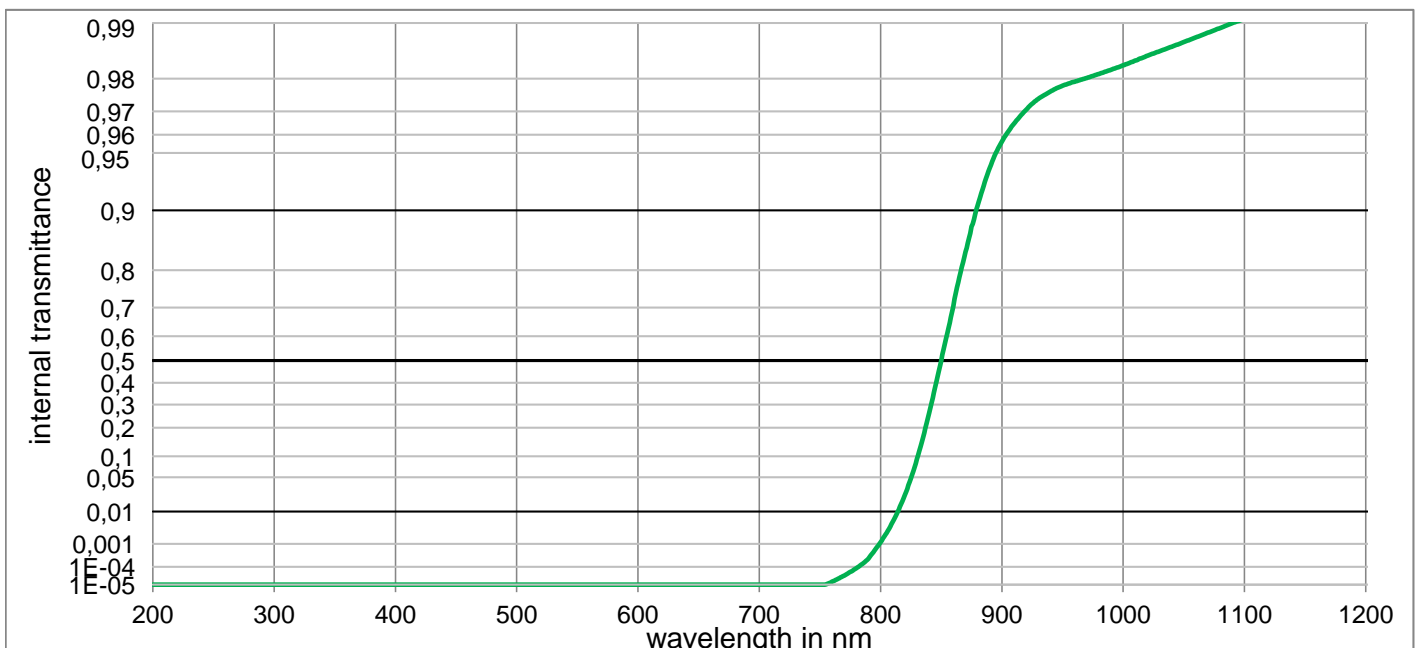
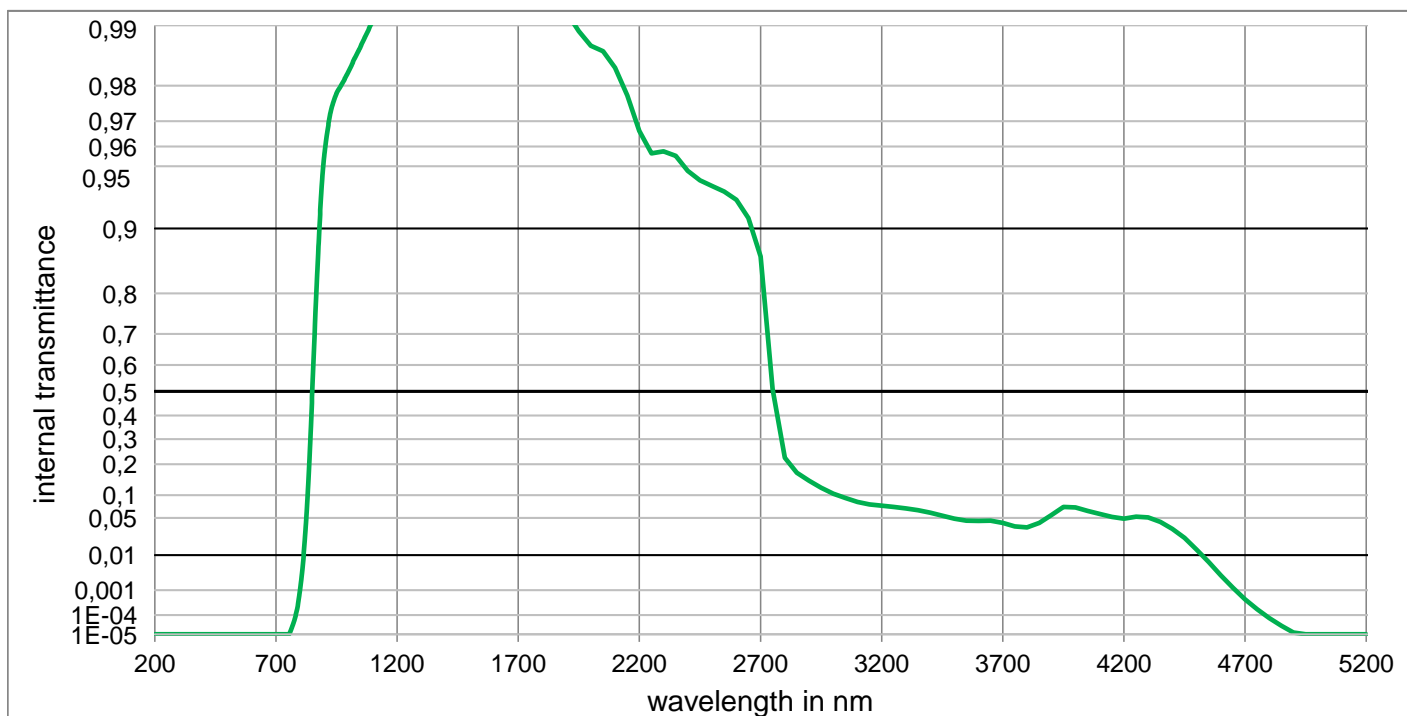


RG850

Optical properties	Mechanical properties	Colormetric properties						
Reflection factor	Reference thickness	1 mm 2 mm 3 mm						
$P_d = 0,909$	$d = 3,00 \text{ mm}$	<table border="1"> <tr><td rowspan="2">Illuminant D65</td><td>x</td></tr> <tr><td>y</td></tr> <tr><td>Y</td></tr> <tr><td>λ_d</td></tr> <tr><td>P_e</td></tr> </table>	Illuminant D65	x	y	Y	λ_d	P_e
Illuminant D65	x							
	y							
Y								
λ_d								
P_e								
Spectral values guaranteed (d = 3 mm)	Density	<table border="1"> <tr><td rowspan="2">Illuminant A</td><td>x</td></tr> <tr><td>y</td></tr> <tr><td>Y</td></tr> <tr><td>λ_d</td></tr> <tr><td>P_e</td></tr> </table>	Illuminant A	x	y	Y	λ_d	P_e
Illuminant A	x							
	y							
Y								
λ_d								
P_e								
$\lambda_c (\tau_i = 0,5) = 850 \text{ nm} \pm 9 \text{ nm}$	$\rho = 2,93 \text{ g/cm}^3$							
$\lambda_s (\tau_{i,U} = 1E-05) = 700 \text{ nm}$	Knoop hardness							
$\lambda_p (\tau_{i,L} = 0,90) = 950 \text{ nm}$	$HK_{[0.1/20]} = 441$							
$\lambda_p (\tau_{i,L} = 0,97) = 1200 \text{ nm}$								
	Thermal properties							
	Transformation temperature							
	$T_g = 554 \text{ }^\circ\text{C}$							
	Thermal expansion in $10^{-6}/\text{K}$							
	$\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})} = 9,5$							
	$\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 10,5$							
	Temperature coefficient							
	$Tk = 0,24 \text{ nm/K}$							
Refractive indices	Chemical properties	Notes						
$n_d (587,6 \text{ nm}) = 1,56$	Chemical resistance							
$n_s (852 \text{ nm}) = 1,55$	FR class = 5	Stricking glass						
$n_t (1014 \text{ nm}) = 1,55$	SR class = 53.4	Longpass filter						
	AR class = 1.3							
Sellmeier coefficients	Resistance against humidity	DIN 58131						
on request	Robust glass							
	see pocket catalogue "Optical Filter Glass 2020", chapter 5.5	Disclaimer						
		All data without tolerances are to be understood to be reference values.						
Internal quality								
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