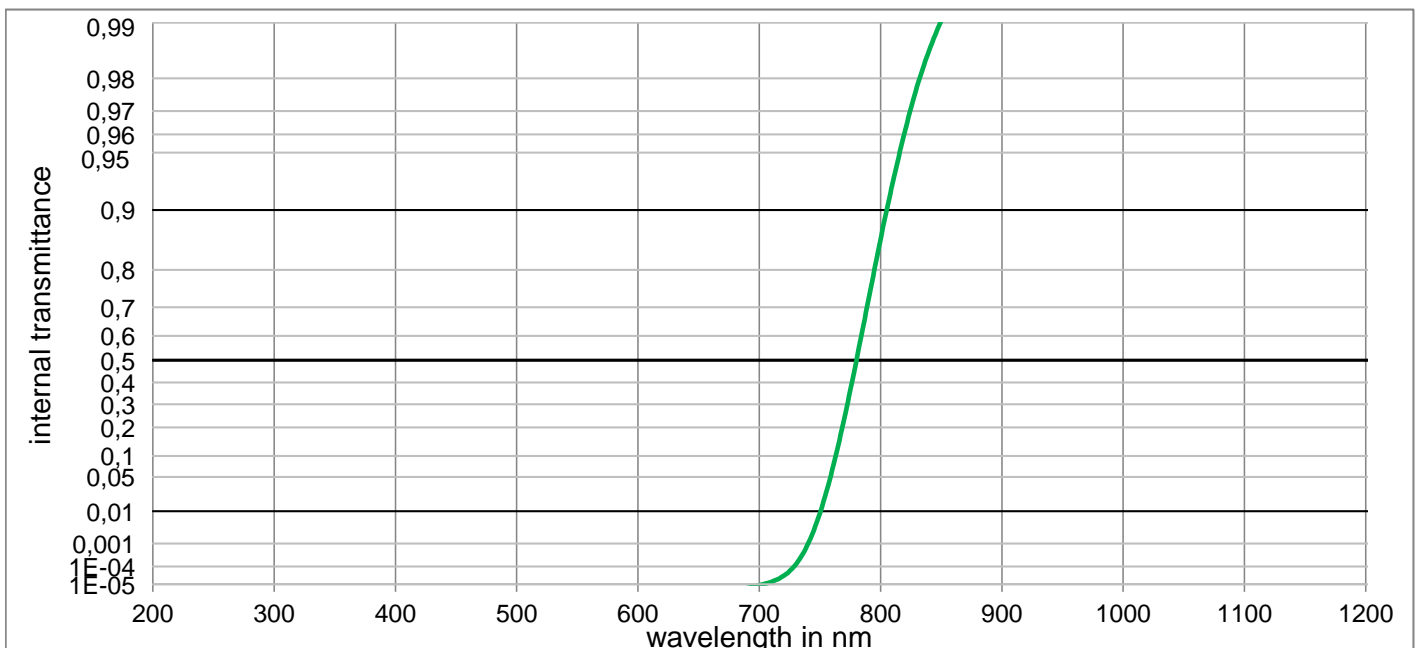
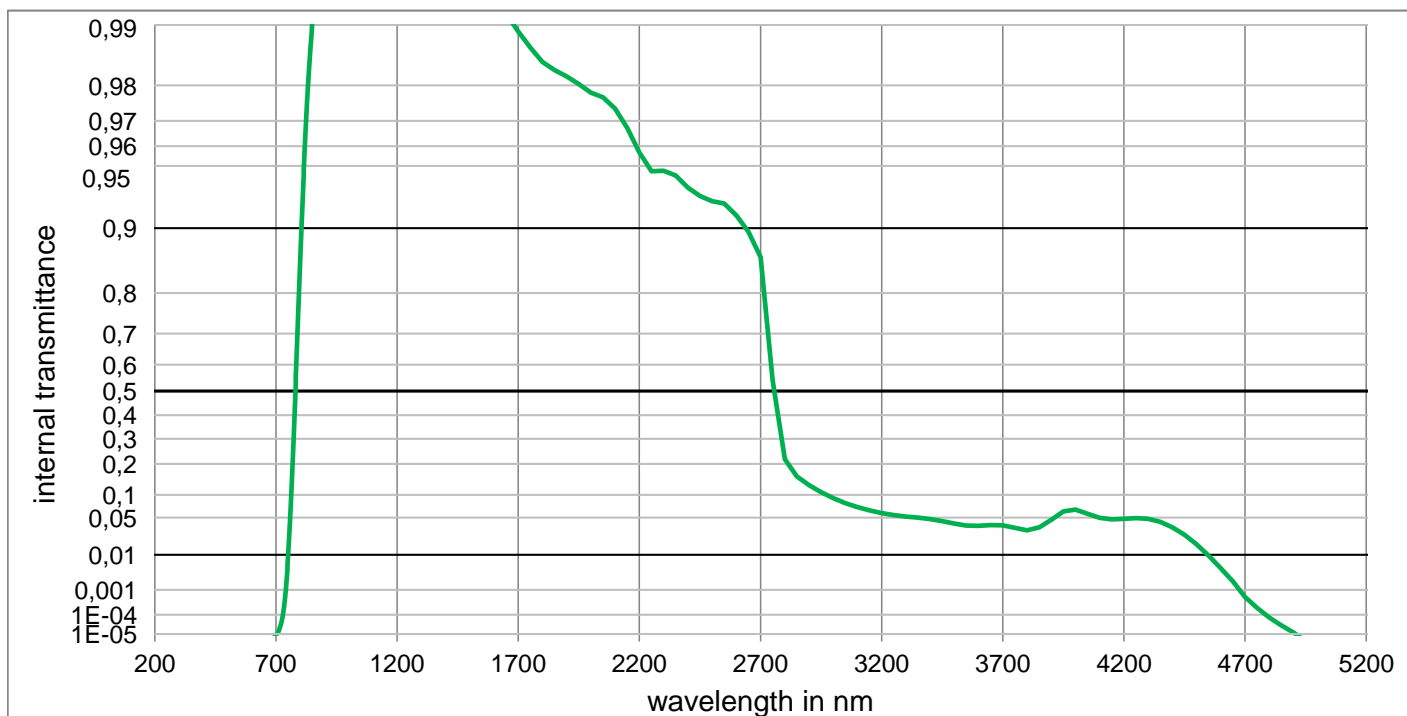


RG780

Optical properties	Mechanical properties	Colormetric properties	
Reflection factor	Reference thickness	1 mm 2 mm 3 mm	
$P_d = 0,908$	$d = 3,00 \text{ mm}$	Illuminant D65 x y Y λ_d P_e	
Spectral values guaranteed (d = 3 mm)	Density		Illuminant A x y Y λ_d P_e
$\lambda_c (\tau_i = 0,5) = 780 \text{ nm} \pm 9 \text{ nm}$	$\rho = 2,94 \text{ g/cm}^3$		
$\lambda_s (\tau_{i,U} = 1E-05) = 610 \text{ nm}$	Knoop hardness		
$\lambda_p (\tau_{i,L} = 0,97) = 900 \text{ nm}$	$HK_{[0.1/20]}$		
	Thermal properties		
	Transformation temperature		
	$T_g = 552 \text{ }^\circ\text{C}$		
	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		
	$Tk = 0,22 \text{ nm/K}$		
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		DIN 58131	
valid from 440 nm to 1550 nm			
$B_1 = 0,4066$			
$B_2 = 0,9852$			
$B_3 = 0,3548$			
$C_1 = 1,139E-02 \text{ } \mu\text{m}^2$			
$C_2 = 1,2050E-02 \text{ } \mu\text{m}^2$			
$C_3 = 55,081 \text{ } \mu\text{m}^2$			
Internal quality		Disclaimer	
Bubble class 3		All data without tolerances are to be understood to be reference values	



RG780



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	8,585E-01	1100	9,944E-01	2200	9,571E-01	3700	3,777E-02
210	< 1,0E-05	510	< 1,000E-05	810	9,277E-01	1110	9,944E-01	2250	9,468E-01	3750	3,428E-02
220	< 1,0E-05	520	< 1,000E-05	820	9,614E-01	1120	9,944E-01	2300	9,472E-01	3800	3,105E-02
230	< 1,0E-05	530	< 1,000E-05	830	9,778E-01	1130	9,945E-01	2350	9,443E-01	3850	3,484E-02
240	< 1,0E-05	540	< 1,000E-05	840	9,858E-01	1140	9,945E-01	2400	9,363E-01	3900	4,632E-02
250	< 1,0E-05	550	< 1,000E-05	850	9,902E-01	1150	9,945E-01	2450	9,300E-01	3950	6,186E-02
260	< 1,0E-05	560	< 1,000E-05	860	9,910E-01	1160	9,945E-01	2500	9,257E-01	4000	6,493E-02
270	< 1,0E-05	570	< 1,000E-05	870	9,919E-01	1170	9,945E-01	2550	9,238E-01	4050	5,684E-02
280	< 1,0E-05	580	< 1,000E-05	880	9,924E-01	1180	9,946E-01	2600	9,131E-01	4100	4,949E-02
290	< 1,0E-05	590	< 1,000E-05	890	9,927E-01	1190	9,946E-01	2650	8,962E-01	4150	4,707E-02
300	< 1,0E-05	600	< 1,000E-05	900	9,929E-01	1200	9,947E-01	2700	8,629E-01	4200	4,802E-02
310	< 1,0E-05	610	< 1,000E-05	910	9,930E-01	1250	9,948E-01	2750	5,436E-01	4250	4,921E-02
320	< 1,000E-05	620	< 1,000E-05	920	9,931E-01	1300	9,950E-01	2800	2,180E-01	4300	4,794E-02
330	< 1,000E-05	630	< 1,000E-05	930	9,931E-01	1350	9,951E-01	2850	1,559E-01	4350	4,304E-02
340	< 1,000E-05	640	< 1,000E-05	940	9,931E-01	1400	9,930E-01	2900	1,279E-01	4400	3,517E-02
350	< 1,000E-05	650	< 1,000E-05	950	9,930E-01	1450	9,933E-01	2950	1,071E-01	4450	2,583E-02
360	< 1,000E-05	660	< 1,000E-05	960	9,930E-01	1500	9,942E-01	3000	9,129E-02	4500	1,685E-02
370	< 1,000E-05	670	< 1,000E-05	970	9,933E-01	1550	9,938E-01	3050	7,961E-02	4550	9,430E-03
380	< 1,000E-05	680	< 1,000E-05	980	9,937E-01	1600	9,927E-01	3100	7,064E-02	4600	4,586E-03
390	< 1,000E-05	690	< 1,000E-05	990	9,939E-01	1650	9,912E-01	3150	6,354E-02	4650	1,887E-03
400	< 1,000E-05	700	< 1,000E-05	1000	9,940E-01	1700	9,892E-01	3200	5,827E-02	4700	5,470E-04
410	< 1,000E-05	710	1,422E-05	1010	9,941E-01	1750	9,870E-01	3250	5,439E-02	4750	1,991E-04
420	< 1,000E-05	720	3,155E-05	1020	9,942E-01	1800	9,847E-01	3300	5,195E-02	4800	7,430E-05
430	< 1,000E-05	730	1,255E-04	1030	9,942E-01	1850	9,832E-01	3350	5,008E-02	4850	2,958E-05
440	< 1,000E-05	740	9,334E-04	1040	9,942E-01	1900	9,820E-01	3400	4,755E-02	4900	1,222E-05
450	< 1,000E-05	750	8,941E-03	1050	9,943E-01	1950	9,803E-01	3450	4,414E-02	4950	< 1,000E-05
460	< 1,000E-05	760	6,268E-02	1060	9,943E-01	2000	9,783E-01	3500	4,020E-02	5000	< 1,000E-05
470	< 1,000E-05	770	2,345E-01	1070	9,943E-01	2050	9,771E-01	3550	3,737E-02	5050	< 1,000E-05
480	< 1,000E-05	780	4,959E-01	1080	9,943E-01	2100	9,739E-01	3600	3,722E-02	5100	< 1,000E-05
490	< 1,000E-05	790	7,222E-01	1090	9,944E-01	2150	9,675E-01	3650	3,809E-02	5150	< 1,000E-05