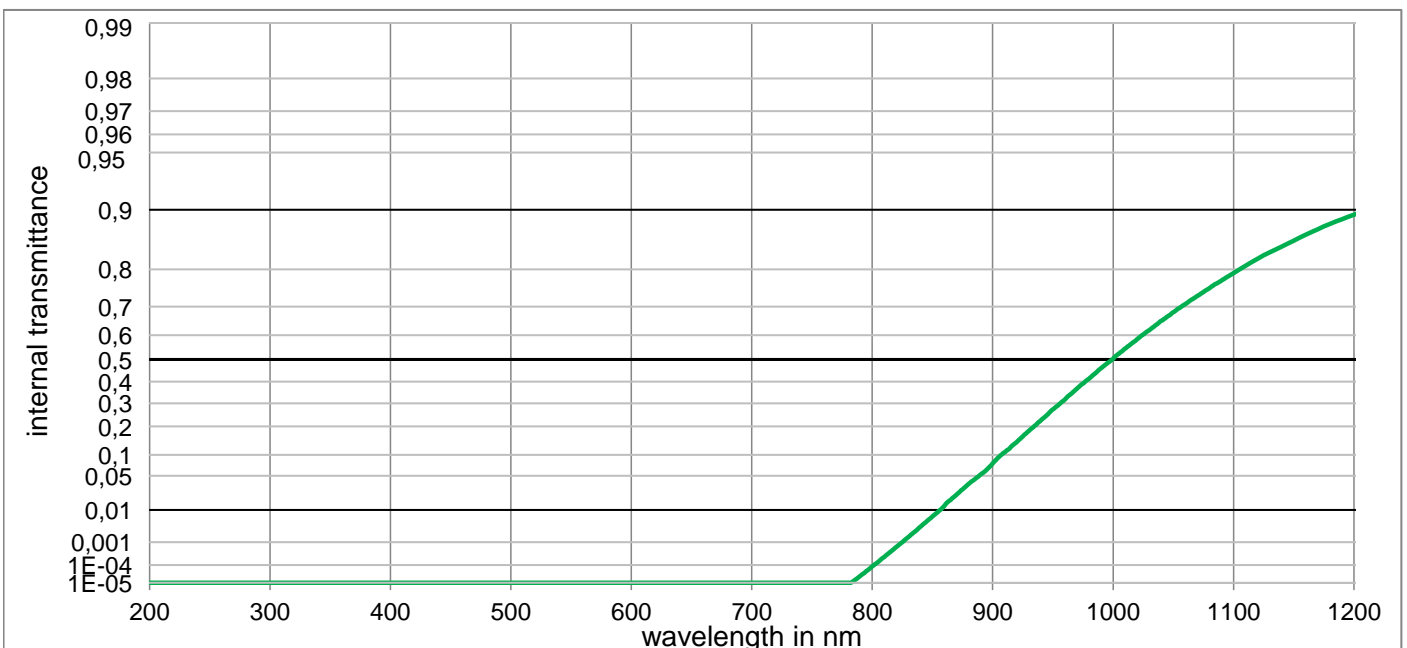
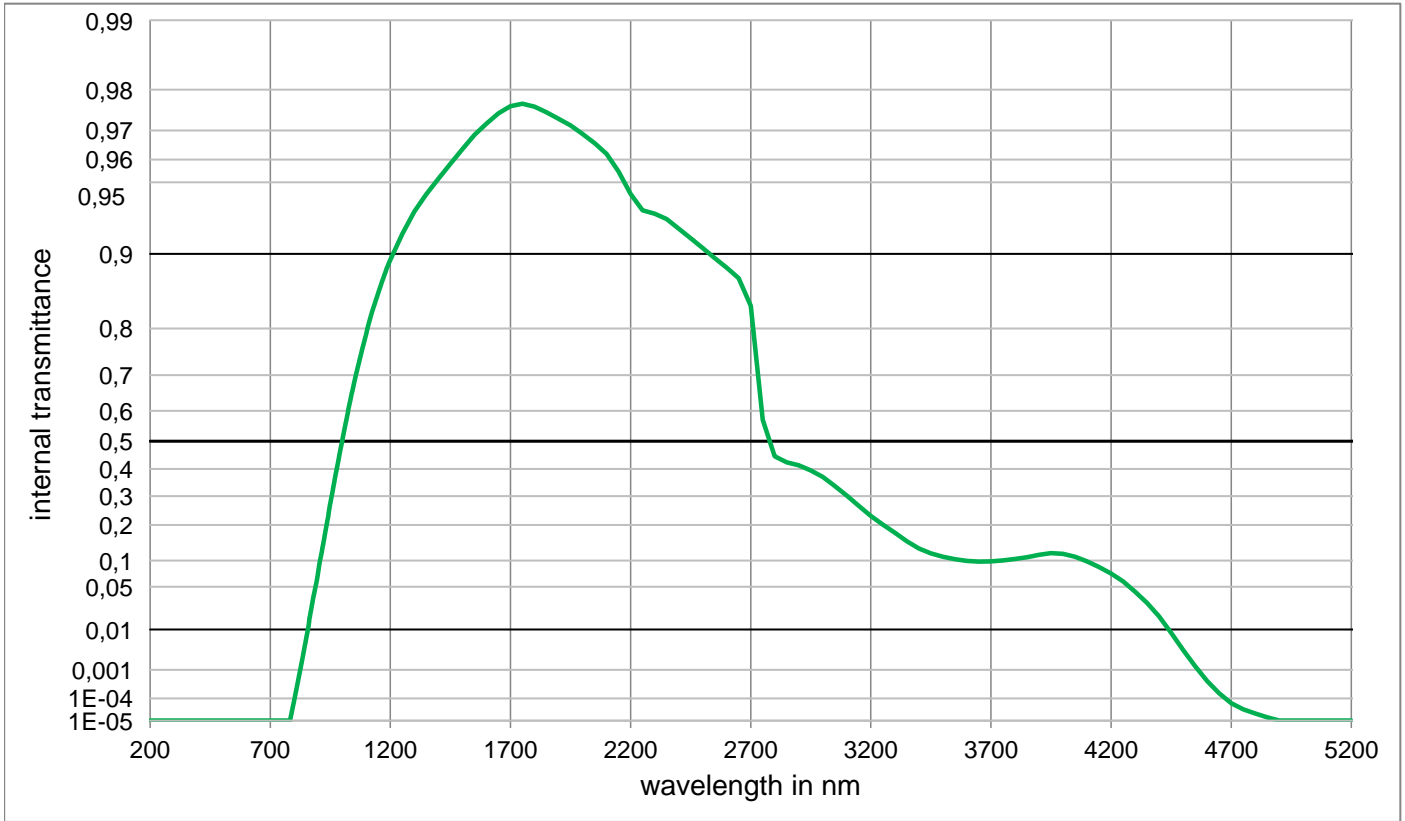


RG1000

Optical properties	Mechanical properties	Colorimetric properties
Reflection factor	Reference thickness	1 mm 2 mm 3 mm
$P_d = 0,913$	$d = 3,00 \text{ mm}$	Illuminant D65 x y Y λ_d P_e
Spectral values guaranteed (d = 3 mm)	Density	
$\lambda_{i0,5} = 1000 \text{ nm} \pm 6 \text{ nm}$	$\rho = 2,73 \text{ g/cm}^3$	
$\lambda_s (\tau_{i,U} = 1E-05) = 730 \text{ nm}$	Knoop hardness	
$\lambda_p (\tau_{i,L} = 0,90) = 1300 \text{ nm}$	$HK_{[0.1/20]} = 460$	
		Illuminant A x y Y λ_d P_e
	Thermal properties	
	Transformation temperature	
	$T_g = 476 \text{ }^\circ\text{C}$	
	Thermal expansion in $10^{-6}/\text{K}$	
Refractive indices	$\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})} = 9,0$	Notes Ionically colored glass Longpass filter ISO 23364:2021 Disclaimer All data without tolerances are to be understood to be reference values.
$n_d (587,6 \text{ nm}) = 1,54$	$\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 10,2$	
$n_s (852 \text{ nm}) = 1,53$		
$n_t (1014 \text{ nm}) = 1,53$	Temperature coefficient	
	$Tk = 0,41 \text{ nm/K}$	
Sellmeier coefficients	Chemical properties	
valid from 440 nm to 1550 nm	Chemical resistance	
$B_1 = 0,8970$	FR class = 0	
$B_2 = 0,4353$	SR class = 1	
$B_3 = 1,1960$	AR class = 1	
$C_1 = 1,087E-02 \text{ } \mu\text{m}^2$	Resistance against humidity	
$C_2 = 1,1835E-02 \text{ } \mu\text{m}^2$	Robust glass	
$C_3 = 142,345 \text{ } \mu\text{m}^2$	see pocket catalogue "Optical Filter Glass 2024", chapter 5.5	
Internal quality		
Bubble class 3		



RG1000



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	8,394E-05	1100	7,917E-01	2200	9,439E-01	3700	9,800E-02
210	< 1,0E-05	510	< 1,000E-05	810	2,455E-04	1110	8,080E-01	2250	9,342E-01	3750	1,002E-01
220	< 1,0E-05	520	< 1,000E-05	820	6,502E-04	1120	8,226E-01	2300	9,320E-01	3800	1,036E-01
230	< 1,0E-05	530	< 1,000E-05	830	1,551E-03	1130	8,350E-01	2350	9,284E-01	3850	1,080E-01
240	< 1,0E-05	540	< 1,000E-05	840	3,371E-03	1140	8,459E-01	2400	9,216E-01	3900	1,136E-01
250	< 1,0E-05	550	< 1,000E-05	850	6,757E-03	1150	8,561E-01	2450	9,138E-01	3950	1,179E-01
260	< 1,0E-05	560	< 1,000E-05	860	1,254E-02	1160	8,656E-01	2500	9,054E-01	4000	1,161E-01
270	< 1,0E-05	570	< 1,000E-05	870	2,229E-02	1170	8,739E-01	2550	8,959E-01	4050	1,089E-01
280	< 1,0E-05	580	< 1,000E-05	880	3,617E-02	1180	8,816E-01	2600	8,861E-01	4100	9,840E-02
290	< 1,0E-05	590	< 1,000E-05	890	5,218E-02	1190	8,879E-01	2650	8,740E-01	4150	8,574E-02
300	< 1,0E-05	600	< 1,000E-05	900	7,670E-02	1200	8,940E-01	2700	8,370E-01	4200	7,245E-02
310	< 1,0E-05	610	< 1,000E-05	910	1,073E-01	1250	9,176E-01	2750	5,716E-01	4250	5,855E-02
320	< 1,000E-05	620	< 1,000E-05	920	1,407E-01	1300	9,335E-01	2800	4,462E-01	4300	4,286E-02
330	< 1,000E-05	630	< 1,000E-05	930	1,822E-01	1350	9,438E-01	2850	4,240E-01	4350	2,926E-02
340	< 1,000E-05	640	< 1,000E-05	940	2,248E-01	1400	9,518E-01	2900	4,138E-01	4400	1,762E-02
350	< 1,000E-05	650	< 1,000E-05	950	2,726E-01	1450	9,583E-01	2950	3,942E-01	4450	8,530E-03
360	< 1,000E-05	660	< 1,000E-05	960	3,177E-01	1500	9,640E-01	3000	3,704E-01	4500	3,477E-03
370	< 1,000E-05	670	< 1,000E-05	970	3,676E-01	1550	9,687E-01	3050	3,373E-01	4550	1,300E-03
380	< 1,000E-05	680	< 1,000E-05	980	4,135E-01	1600	9,720E-01	3100	3,015E-01	4600	4,406E-04
390	< 1,000E-05	690	< 1,000E-05	990	4,614E-01	1650	9,747E-01	3150	2,644E-01	4650	1,603E-04
400	< 1,000E-05	700	< 1,000E-05	1000	5,029E-01	1700	9,764E-01	3200	2,303E-01	4700	6,397E-05
410	< 1,000E-05	710	< 1,000E-05	1010	5,464E-01	1750	9,770E-01	3250	2,013E-01	4750	3,404E-05
420	< 1,000E-05	720	< 1,000E-05	1020	5,848E-01	1800	9,763E-01	3300	1,753E-01	4800	2,249E-05
430	< 1,000E-05	730	< 1,000E-05	1030	6,192E-01	1850	9,750E-01	3350	1,507E-01	4850	1,445E-05
440	< 1,000E-05	740	< 1,000E-05	1040	6,527E-01	1900	9,733E-01	3400	1,302E-01	4900	< 1,000E-05
450	< 1,000E-05	750	< 1,000E-05	1050	6,821E-01	1950	9,715E-01	3450	1,174E-01	4950	< 1,000E-05
460	< 1,000E-05	760	< 1,000E-05	1060	7,085E-01	2000	9,690E-01	3500	1,088E-01	5000	< 1,000E-05
470	< 1,000E-05	770	< 1,000E-05	1070	7,320E-01	2050	9,660E-01	3550	1,030E-01	5050	< 1,000E-05
480	< 1,000E-05	780	< 1,000E-05	1080	7,538E-01	2100	9,622E-01	3600	9,915E-02	5100	< 1,000E-05
490	< 1,000E-05	790	2,575E-05	1090	7,734E-01	2150	9,551E-01	3650	9,763E-02	5150	< 1,000E-05