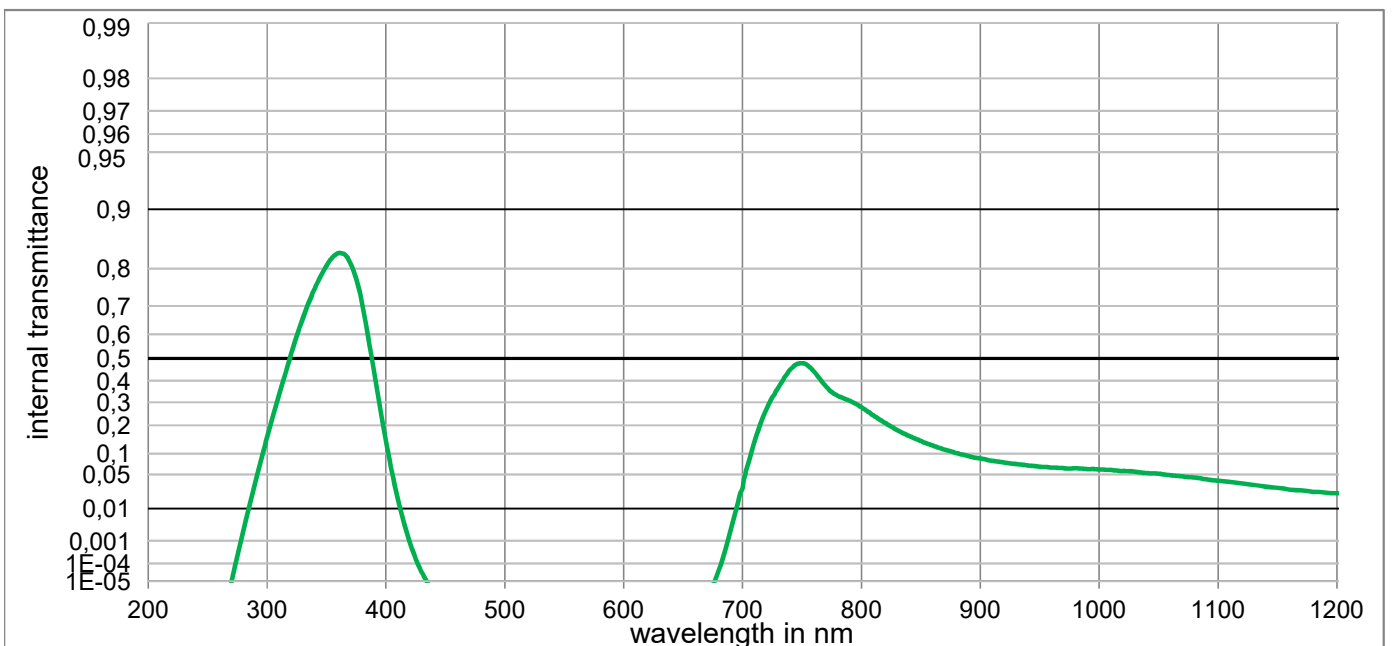
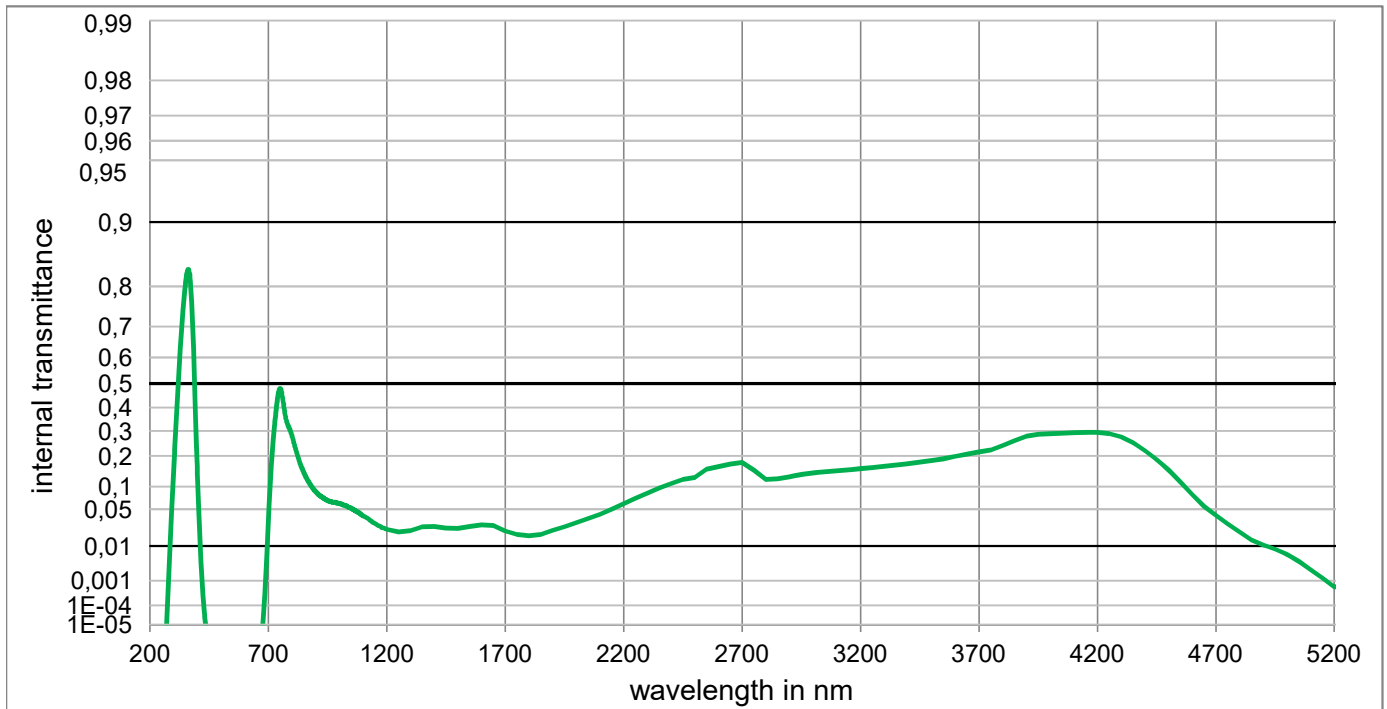


UG1

Optical properties	Mechanical properties	Colorimetric properties
Reflection factor	Reference thickness	1 mm 2 mm 3 mm
$P_d = 0,913$	$d = 1,00 \text{ mm}$	Illuminant D65 x y Y λ_d P_e
Spectral values guaranteed (d = 1 mm)	Density	
$\lambda_c (\tau_i = 0,5) = \text{nm nm}$	$\rho = 2,77 \text{ g/cm}^3$	
$\lambda_s (\tau_{i,U} =) = \text{nm}$	Knoop hardness	
$\lambda_p (\tau_{i,L} =) = \text{nm}$	$HK_{[0.1/20]} = 482$	
		Illuminant A x y Y λ_d P_e
	Thermal properties	
	Transformation temperature	
	$T_g = 603 \text{ }^\circ\text{C}$	
	Thermal expansion in $10^{-6}/\text{K}$	
Refractive indices	$\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})} = 7,9$	Notes UV Transmission changes are possible under the action of intense ultraviolet radiation. Ionically colored glass Bandpass filter DIN 58131
$n_d (587,6 \text{ nm}) = 1,54$	$\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 8,9$	
$n_s (852 \text{ nm}) = 1,53$		
$n_t (1014 \text{ nm}) = 1,53$		
Sellmeier coefficients	Chemical properties	
valid from 400 nm to 1550 nm	Chemical resistance	
$B_1 = 0,9475$	FR class = 0	
$B_2 = 0,3895$	SR class = 1	
$B_3 = 1,1076$	AR class = 1	
$C_1 = 9,783\text{E-}03 \text{ } \mu\text{m}^2$		
$C_2 = 1,1182\text{E-}02 \text{ } \mu\text{m}^2$		
$C_3 = 147,627 \text{ } \mu\text{m}^2$		
Internal quality		Disclaimer
Bubble class 1		All data without tolerances are to be understood to be reference values



UG1



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	λ /nm	τ_i
200	< 1,0E-05	500	< 1,000E-05	800	2,769E-01	1100	3,919E-02	2200	5,979E-02	3700	2,146E-01		
210	< 1,0E-05	510	< 1,000E-05	810	2,416E-01	1110	3,721E-02	2250	7,156E-02	3750	2,230E-01		
220	< 1,0E-05	520	< 1,000E-05	820	2,091E-01	1120	3,533E-02	2300	8,324E-02	3800	2,400E-01		
230	< 1,0E-05	530	< 1,000E-05	830	1,812E-01	1130	3,286E-02	2350	9,590E-02	3850	2,592E-01		
240	< 1,0E-05	540	< 1,000E-05	840	1,584E-01	1140	3,046E-02	2400	1,083E-01	3900	2,774E-01		
250	< 1,0E-05	550	< 1,000E-05	850	1,402E-01	1150	2,892E-02	2450	1,199E-01	3950	2,859E-01		
260	< 1,0E-05	560	< 1,000E-05	860	1,250E-01	1160	2,682E-02	2500	1,262E-01	4000	2,887E-01		
270	< 1,0E-05	570	< 1,000E-05	870	1,123E-01	1170	2,601E-02	2550	1,524E-01	4050	2,906E-01		
280	2,4E-03	580	< 1,000E-05	880	1,019E-01	1180	2,411E-02	2600	1,615E-01	4100	2,925E-01		
290	3,7E-02	590	< 1,000E-05	890	9,311E-02	1190	2,337E-02	2650	1,700E-01	4150	2,934E-01		
300	1,6E-01	600	< 1,000E-05	900	8,686E-02	1200	2,243E-02	2700	1,762E-01	4200	2,934E-01		
310	3,4E-01	610	< 1,000E-05	910	8,073E-02	1250	2,020E-02	2750	1,498E-01	4250	2,893E-01		
320	5,189E-01	620	< 1,000E-05	920	7,633E-02	1300	2,134E-02	2800	1,200E-01	4300	2,755E-01		
330	6,591E-01	630	< 1,000E-05	930	7,269E-02	1350	2,534E-02	2850	1,219E-01	4350	2,523E-01		
340	7,508E-01	640	< 1,000E-05	940	6,916E-02	1400	2,552E-02	2900	1,279E-01	4400	2,200E-01		
350	8,072E-01	650	< 1,000E-05	950	6,633E-02	1450	2,378E-02	2950	1,354E-01	4450	1,860E-01		
360	8,327E-01	660	< 1,000E-05	960	6,451E-02	1500	2,337E-02	3000	1,400E-01	4500	1,500E-01		
370	8,124E-01	670	< 1,000E-05	970	6,314E-02	1550	2,540E-02	3050	1,439E-01	4550	1,131E-01		
380	7,060E-01	680	4,430E-05	980	6,293E-02	1600	2,746E-02	3100	1,476E-01	4600	8,000E-02		
390	4,380E-01	690	2,460E-03	990	6,107E-02	1650	2,657E-02	3150	1,508E-01	4650	5,508E-02		
400	1,376E-01	700	2,820E-02	1000	6,046E-02	1700	2,106E-02	3200	1,546E-01	4700	4,000E-02		
410	1,650E-02	710	1,395E-01	1010	5,929E-02	1750	1,786E-02	3250	1,580E-01	4750	2,838E-02		
420	8,618E-04	720	2,686E-01	1020	5,705E-02	1800	1,677E-02	3300	1,621E-01	4800	2,000E-02		
430	3,463E-05	730	3,682E-01	1030	5,553E-02	1850	1,793E-02	3350	1,668E-01	4850	1,380E-02		
440	< 1,000E-05	740	4,499E-01	1040	5,300E-02	1900	2,145E-02	3400	1,718E-01	4900	1,057E-02		
450	< 1,000E-05	750	4,798E-01	1050	5,141E-02	1950	2,515E-02	3450	1,769E-01	4950	8,356E-03		
460	< 1,000E-05	760	4,419E-01	1060	4,881E-02	2000	3,012E-02	3500	1,825E-01	5000	6,281E-03		
470	< 1,000E-05	770	3,736E-01	1070	4,668E-02	2050	3,544E-02	3550	1,891E-01	5050	4,055E-03		
480	< 1,000E-05	780	3,298E-01	1080	4,456E-02	2100	4,160E-02	3600	1,995E-01	5100	2,328E-03		
490	< 1,000E-05	790	3,068E-01	1090	4,168E-02	2150	5,012E-02	3650	2,070E-01	5150	1,230E-03		