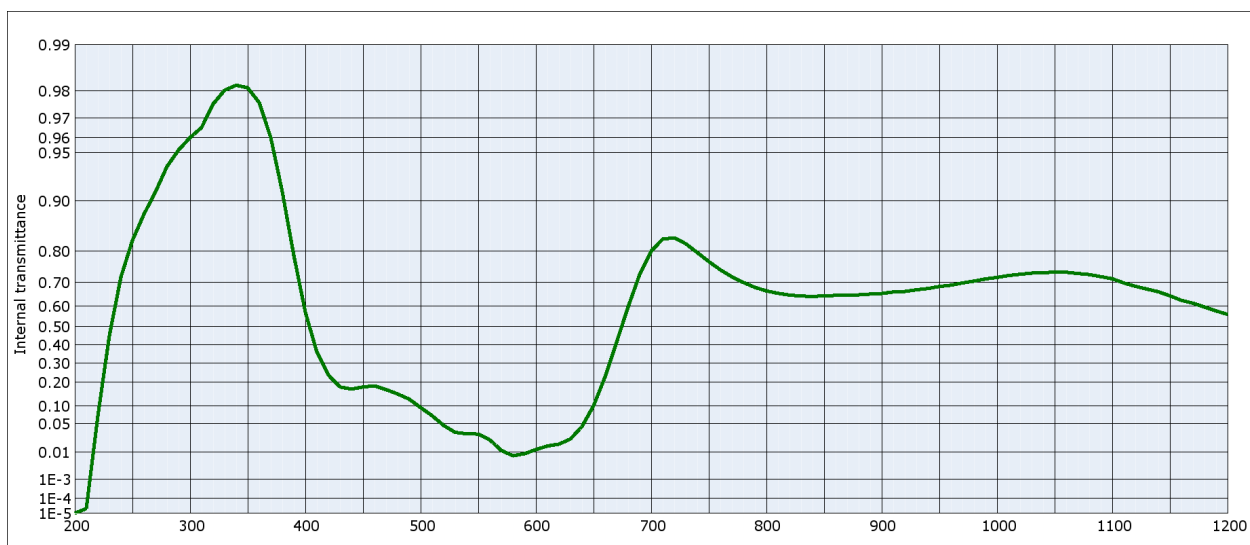
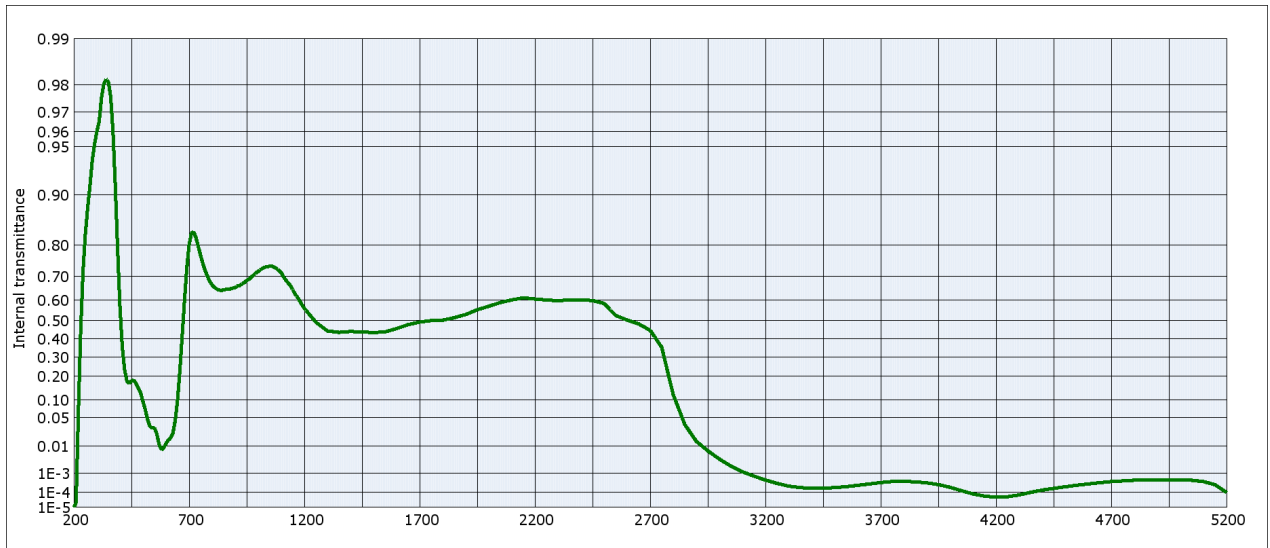


<h2 style="text-align: center; margin: 0;">UG5</h2>	Density ρ [g/cm ³] 2.85	Notes Ionically colored glass Bandpass filter ⚡ ⚡ Long-term changes of the polished surface are possible. ☀️ Transmission changes are possible under the action of intense ultraviolet radiation.
Reflection factor P_d 0.914	Bubble content Bubble class 2	All data without tolerances are to be understood to be reference values. Guaranteed values are only those values listed in the section "Spectral values guaranteed".
Reference thickness d [mm] 1	Chemical Resistance FR class 0 SR class 3.0 AR class 2.0	
Spectral values guaranteed τ_i (254nm) ≥ 0.8 τ_i (308nm) ≥ 0.94 τ_i (405nm) ≤ 0.5 τ_i (546nm) ≤ 0.05 τ_i (633nm) ≤ 0.05 τ_i (725nm) ≤ 0.85	Transformation temperature T_g [°C] 462	
	Thermal expansion $\alpha_{30/+70^\circ\text{C}}$ [10 ⁻⁶ /K] 8.1 $\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K] 9.4 $\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]	
Refractive Index n n (253.7 nm) = 1.600 n _i (365.0 nm) = 1.560 n _d (587.6 nm) = 1.540 n _i (1014.0 nm) = 1.530	Temperature coefficient T_K [nm/°C]	

Colorimetric evaluation												
Illuminant	A (Planck T = 2856 K)			Illuminant	Planck T = 3200 K			Illuminant	D65 (T _C = 6504 K)			
d [mm]	1	2	3	d [mm]	1	2	3	d [mm]	1	2	3	
x				x				x				
y				y				y				
Y				Y				Y				
λ _d [nm]				λ _d [nm]				λ _d [nm]				
P _e				P _e				P _e				





Internal transmittance τ_i at reference thickness $d = 1$ mm
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	$< 10^{-5}$	500	$9.5 \cdot 10^{-2}$	800	0.665	1100	0.712	2200	0.604	3700	$3.6 \cdot 10^{-4}$
210	$2.2 \cdot 10^{-5}$	510	$7.0 \cdot 10^{-2}$	810	0.655	1110	0.696	2250	0.599	3750	$4.0 \cdot 10^{-4}$
220	$6.9 \cdot 10^{-2}$	520	$4.6 \cdot 10^{-2}$	820	0.648	1120	0.683	2300	0.596	3800	$4.1 \cdot 10^{-4}$
230	0.450	530	$3.3 \cdot 10^{-2}$	830	0.644	1130	0.673	2350	0.600	3850	$3.9 \cdot 10^{-4}$
240	0.718	540	$3.0 \cdot 10^{-2}$	840	0.642	1140	0.662	2400	0.600	3900	$3.5 \cdot 10^{-4}$
250	0.826	550	$3.0 \cdot 10^{-2}$	850	0.644	1150	0.644	2450	0.597	3950	$2.8 \cdot 10^{-4}$
260	0.879	560	$2.2 \cdot 10^{-2}$	860	0.646	1160	0.625	2500	0.584	4000	$2.0 \cdot 10^{-4}$
270	0.912	570	$1.1 \cdot 10^{-2}$	870	0.648	1170	0.612	2550	0.525	4050	$1.3 \cdot 10^{-4}$
280	0.939	580	$7.8 \cdot 10^{-3}$	880	0.649	1180	0.595	2600	0.501	4100	$8.2 \cdot 10^{-5}$
290	0.952	590	$9.0 \cdot 10^{-3}$	890	0.652	1190	0.576	2650	0.481	4150	$5.9 \cdot 10^{-5}$
300	0.960	600	$1.2 \cdot 10^{-2}$	900	0.654	1200	0.560	2700	0.446	4200	$5.1 \cdot 10^{-5}$
310	0.966	610	$1.5 \cdot 10^{-2}$	910	0.661	1250	0.489	2750	0.353	4250	$5.4 \cdot 10^{-5}$
320	0.976	620	$1.7 \cdot 10^{-2}$	920	0.663	1300	0.443	2800	0.120	4300	$7.0 \cdot 10^{-5}$
330	0.980	630	$2.3 \cdot 10^{-2}$	930	0.669	1350	0.435	2850	$3.6 \cdot 10^{-2}$	4350	$1.0 \cdot 10^{-4}$
340	0.982	640	$4.4 \cdot 10^{-2}$	940	0.675	1400	0.440	2900	$1.4 \cdot 10^{-2}$	4400	$1.4 \cdot 10^{-4}$
350	0.981	650	0.101	950	0.683	1450	0.437	2950	$7.2 \cdot 10^{-3}$	4450	$1.7 \cdot 10^{-4}$
360	0.976	660	0.227	960	0.688	1500	0.434	3000	$3.8 \cdot 10^{-3}$	4500	$2.1 \cdot 10^{-4}$
370	0.960	670	0.414	970	0.696	1550	0.437	3050	$2.0 \cdot 10^{-3}$	4550	$2.6 \cdot 10^{-4}$
380	0.912	680	0.595	980	0.703	1600	0.456	3100	$1.2 \cdot 10^{-3}$	4600	$3.0 \cdot 10^{-4}$
390	0.787	690	0.727	990	0.711	1650	0.477	3150	$7.4 \cdot 10^{-4}$	4650	$3.5 \cdot 10^{-4}$
400	0.570	700	0.799	1000	0.716	1700	0.490	3200	$4.8 \cdot 10^{-4}$	4700	$4.0 \cdot 10^{-4}$
410	0.360	710	0.829	1010	0.723	1750	0.498	3250	$3.2 \cdot 10^{-4}$	4750	$4.3 \cdot 10^{-4}$
420	0.236	720	0.832	1020	0.728	1800	0.500	3300	$2.3 \cdot 10^{-4}$	4800	$4.7 \cdot 10^{-4}$
430	0.178	730	0.818	1030	0.732	1850	0.513	3350	$1.9 \cdot 10^{-4}$	4850	$4.9 \cdot 10^{-4}$
440	0.168	740	0.795	1040	0.734	1900	0.529	3400	$1.8 \cdot 10^{-4}$	4900	$5.0 \cdot 10^{-4}$
450	0.178	750	0.769	1050	0.734	1950	0.553	3450	$1.8 \cdot 10^{-4}$	4950	$5.0 \cdot 10^{-4}$
460	0.183	760	0.743	1060	0.735	2000	0.570	3500	$1.9 \cdot 10^{-4}$	5000	$5.0 \cdot 10^{-4}$
470	0.166	770	0.719	1070	0.731	2050	0.587	3550	$2.1 \cdot 10^{-4}$	5050	$4.6 \cdot 10^{-4}$
480	0.147	780	0.698	1080	0.727	2100	0.600	3600	$2.5 \cdot 10^{-4}$	5100	$4.0 \cdot 10^{-4}$
490	0.126	790	0.679	1090	0.719	2150	0.609	3650	$3.0 \cdot 10^{-4}$	5150	$2.7 \cdot 10^{-4}$