

Data Sheet



GG400

Density	
ρ [g/cm ³]	2.55

Notes

Colloidally colored glass
Long pass filter

Reflection factor	
P_d	0.92

Bubble content	
Bubble class	3

Reference thickness	
d [mm]	3

Chemical resistance	
FR class	0
SR class	1.0
AR class	1.0

Spectral values guaranteed	
λ_c ($\tau_i = 0.50$) [nm]	= 400 ± 6
λ_s ($\tau_{is} = 1 \cdot 10^{-5}$) [nm]	= 340
λ_p ($\tau_{ip} = 0.93$) [nm]	= 480

Transformation temperature	
T_g [°C]	537

Refractive index n		
λ [nm]	Element	n
546	Hg	1.53
587.6	He	1.52
852.1	Cs	1.52
1014	Hg	1.51

Temperature coefficient	
T_k [nm/°C]	0.07

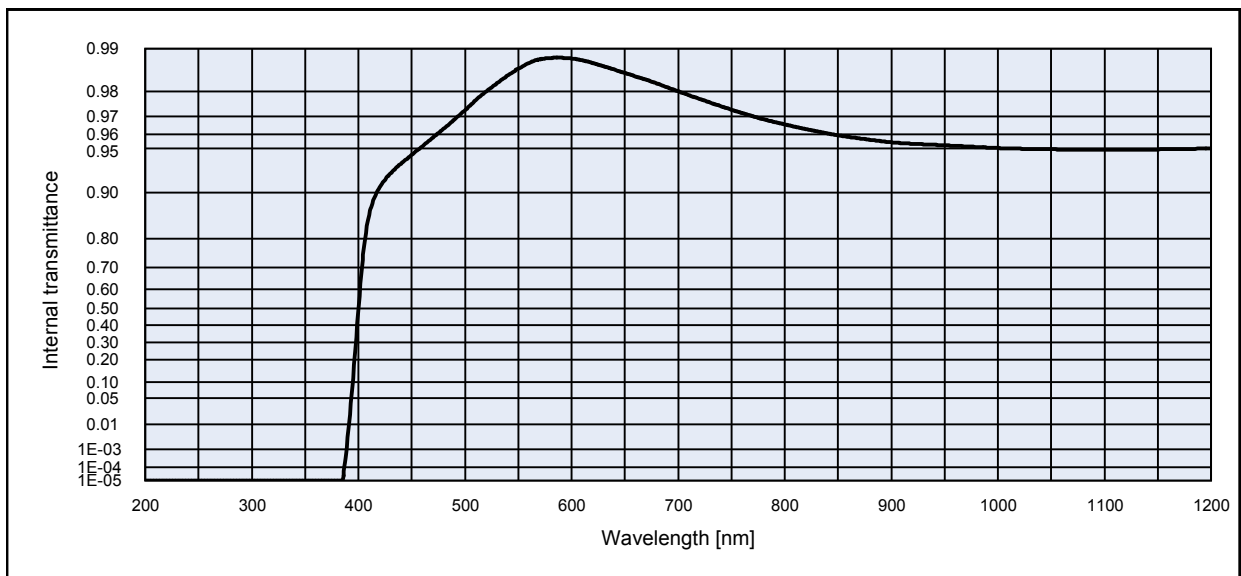
All data without tolerances are to be understood to be reference values. Guaranteed values are only those values listed in the section "Spectral values guaranteed".

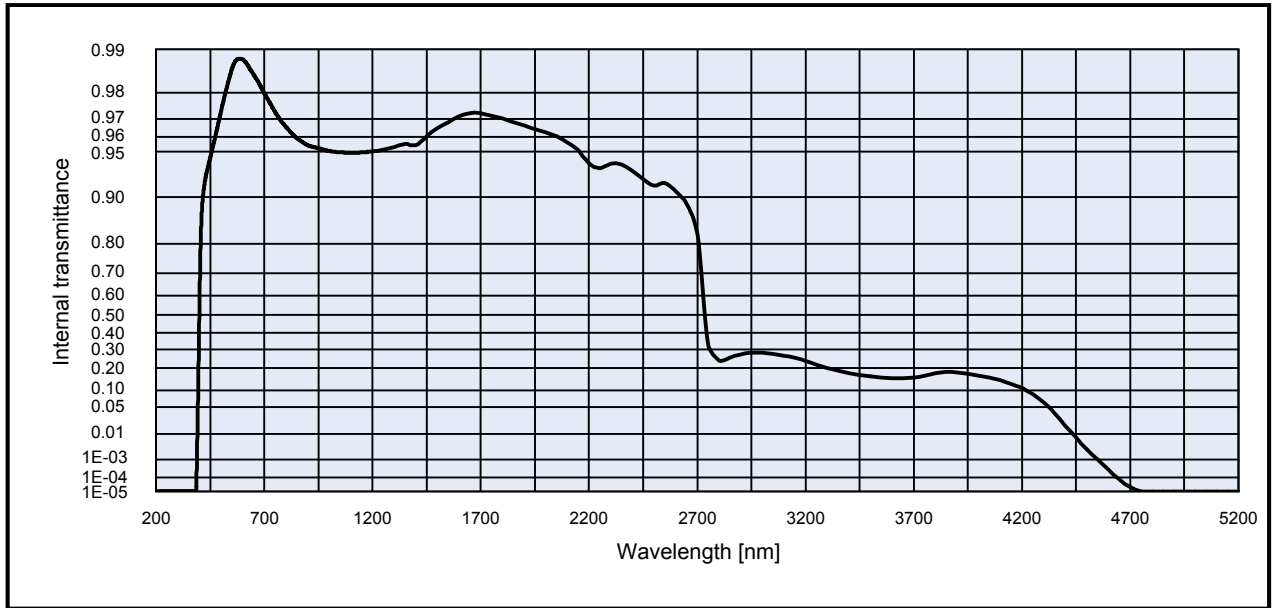
Colorimetric evaluation

Illuminant	A (Planck T = 2856 K)		
	1	2	3
d [mm]	1	2	3
x	0.448	0.449	0.450
y	0.408	0.409	0.410
Y	91	91	90
λ_d [nm]	581	581	581
P_e	0.01	0.02	0.03

Illuminant	Planck T = 3200 K		
	1	2	3
d [mm]	1	2	3
x	0.424	0.425	0.426
y	0.400	0.401	0.402
Y	91	91	90
λ_d [nm]	579	579	579
P_e	0.01	0.02	0.03

Illuminant	D65 (T_c = 6504 K)		
	1	2	3
d [mm]	1	2	3
x	0.314	0.315	0.316
y	0.331	0.333	0.335
Y	91	91	90
λ_d [nm]	570	571	571
P_e	0.01	0.02	0.03





Internal transmittance τ_i at reference thickness d [mm] = 3
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	9.7E-01	800	9.7E-01	1100	9.5E-01	2200	9.4E-01	3700	1.5E-01
210	< 1.0E-05	510	9.8E-01	810	9.6E-01	1110	9.5E-01	2250	9.4E-01	3750	1.6E-01
220	< 1.0E-05	520	9.8E-01	820	9.6E-01	1120	9.5E-01	2300	9.4E-01	3800	1.7E-01
230	< 1.0E-05	530	9.8E-01	830	9.6E-01	1130	9.5E-01	2350	9.4E-01	3850	1.8E-01
240	< 1.0E-05	540	9.8E-01	840	9.6E-01	1140	9.5E-01	2400	9.3E-01	3900	1.8E-01
250	< 1.0E-05	550	9.9E-01	850	9.6E-01	1150	9.5E-01	2450	9.2E-01	3950	1.7E-01
260	< 1.0E-05	560	9.9E-01	860	9.6E-01	1160	9.5E-01	2500	9.2E-01	4000	1.6E-01
270	< 1.0E-05	570	9.9E-01	870	9.6E-01	1170	9.5E-01	2550	9.2E-01	4050	1.5E-01
280	< 1.0E-05	580	9.9E-01	880	9.6E-01	1180	9.5E-01	2600	9.1E-01	4100	1.4E-01
290	< 1.0E-05	590	9.9E-01	890	9.6E-01	1190	9.5E-01	2650	8.9E-01	4150	1.3E-01
300	< 1.0E-05	600	9.9E-01	900	9.5E-01	1200	9.5E-01	2700	8.2E-01	4200	1.1E-01
310	< 1.0E-05	610	9.9E-01	910	9.5E-01	1250	9.5E-01	2750	3.4E-01	4250	8.6E-02
320	< 1.0E-05	620	9.9E-01	920	9.5E-01	1300	9.5E-01	2800	2.4E-01	4300	6.1E-02
330	< 1.0E-05	630	9.9E-01	930	9.5E-01	1350	9.6E-01	2850	2.6E-01	4350	3.7E-02
340	< 1.0E-05	640	9.9E-01	940	9.5E-01	1400	9.5E-01	2900	2.7E-01	4400	1.8E-02
350	< 1.0E-05	650	9.9E-01	950	9.5E-01	1450	9.6E-01	2950	2.8E-01	4450	7.9E-03
360	< 1.0E-05	660	9.8E-01	960	9.5E-01	1500	9.7E-01	3000	2.8E-01	4500	2.8E-03
370	< 1.0E-05	670	9.8E-01	970	9.5E-01	1550	9.7E-01	3050	2.8E-01	4550	9.8E-04
380	< 1.0E-05	680	9.8E-01	980	9.5E-01	1600	9.7E-01	3100	2.7E-01	4600	3.0E-04
390	3.4E-03	690	9.8E-01	990	9.5E-01	1650	9.7E-01	3150	2.6E-01	4650	7.3E-05
400	4.9E-01	700	9.8E-01	1000	9.5E-01	1700	9.7E-01	3200	2.4E-01	4700	2.2E-05
410	8.6E-01	710	9.8E-01	1010	9.5E-01	1750	9.7E-01	3250	2.2E-01	4750	< 1.0E-05
420	9.1E-01	720	9.8E-01	1020	9.5E-01	1800	9.7E-01	3300	2.0E-01	4800	< 1.0E-05
430	9.3E-01	730	9.8E-01	1030	9.5E-01	1850	9.7E-01	3350	1.9E-01	4850	< 1.0E-05
440	9.4E-01	740	9.7E-01	1040	9.5E-01	1900	9.7E-01	3400	1.8E-01	4900	< 1.0E-05
450	9.4E-01	750	9.7E-01	1050	9.5E-01	1950	9.6E-01	3450	1.7E-01	4950	< 1.0E-05
460	9.5E-01	760	9.7E-01	1060	9.5E-01	2000	9.6E-01	3500	1.6E-01	5000	< 1.0E-05
470	9.6E-01	770	9.7E-01	1070	9.5E-01	2050	9.6E-01	3550	1.5E-01	5050	< 1.0E-05
480	9.6E-01	780	9.7E-01	1080	9.5E-01	2100	9.6E-01	3600	1.5E-01	5100	< 1.0E-05
490	9.7E-01	790	9.7E-01	1090	9.5E-01	2150	9.5E-01	3650	1.5E-01	5150	< 1.0E-05