

GG495

Reflection factor	
P_d	0.92

Reference thickness	
d [mm]	3

Spectral values guaranteed	
λ_c ($\tau_i = 0.50$) [nm]	= 495 ± 6
λ_s ($\tau_{is} = 1 \cdot 10^{-5}$) [nm]	= 430
λ_p ($\tau_{ip} = 0.92$) [nm]	= 560

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

Density	
ρ [g/cm ³]	2.56

Bubble content	
Bubble class	3

Chemical resistance	
FR class	0
SR class	1.0
AR class	1.0

Transformation temperature	
T_g [°C]	535

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]	

Temperature coefficient	
T_k [nm/°C]	0.10

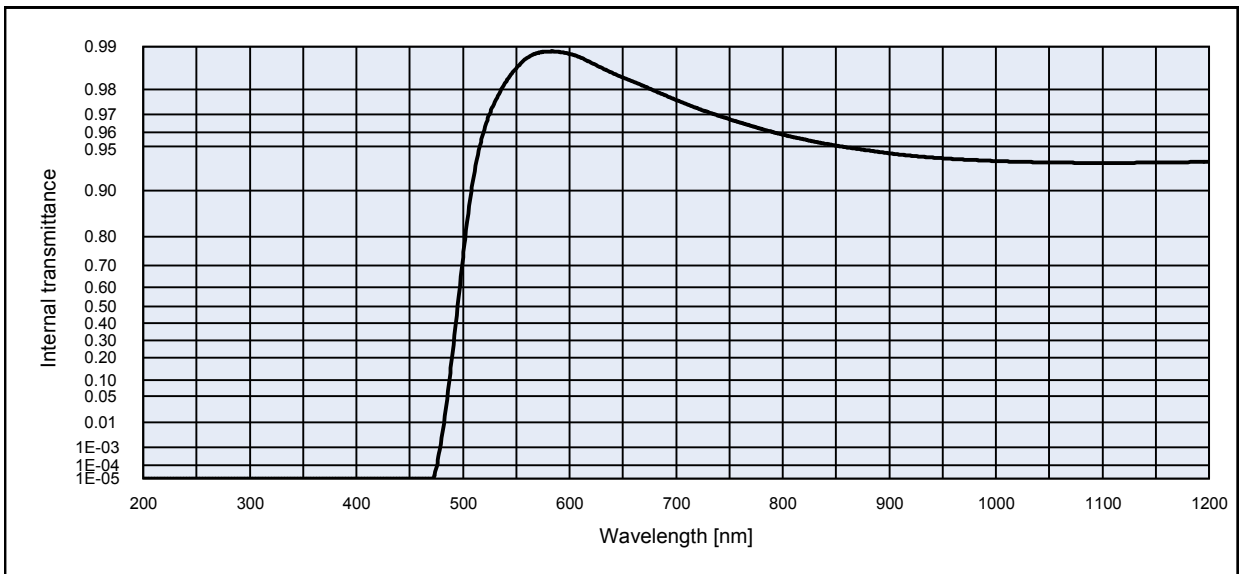
Notes

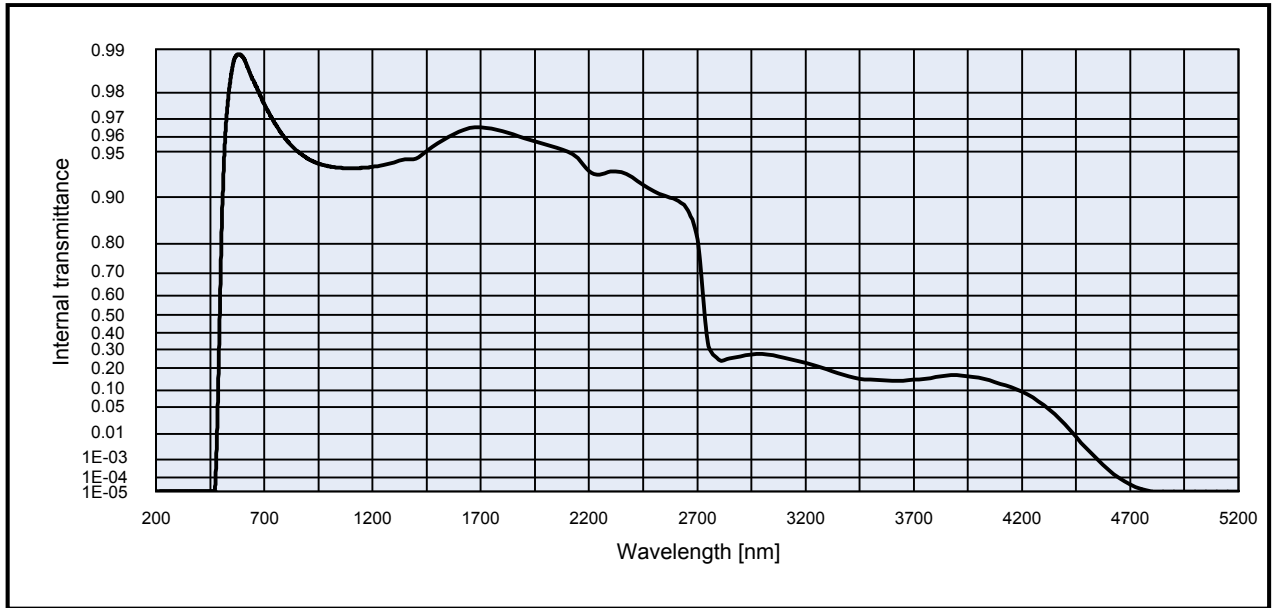
Colloidally colored glass

Long pass filter

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)			Illuminant	Planck T = 3200 K			Illuminant	D65 (T _c = 6504 K)		
	d [mm]	1	2		3	d [mm]	1		2	3	d [mm]
x	0.502	0.507	0.509	x	0.488	0.494	0.497	x	0.422	0.433	0.438
y	0.469	0.472	0.472	y	0.478	0.482	0.482	y	0.514	0.525	0.527
Y	89	88	88	Y	89	88	87	Y	87	85	84
λ_d [nm]	580	581	581	λ_d [nm]	579	579	579	λ_d [nm]	570	571	571
P_e	0.81	0.86	0.88	P_e	0.82	0.87	0.89	P_e	0.82	0.89	0.90





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	7.3E-01	800	9.6E-01	1100	9.4E-01	2200	9.3E-01	3700	1.4E-01
210	< 1.0E-05	510	9.2E-01	810	9.6E-01	1110	9.4E-01	2250	9.3E-01	3750	1.5E-01
220	< 1.0E-05	520	9.6E-01	820	9.6E-01	1120	9.4E-01	2300	9.3E-01	3800	1.6E-01
230	< 1.0E-05	530	9.8E-01	830	9.5E-01	1130	9.4E-01	2350	9.3E-01	3850	1.6E-01
240	< 1.0E-05	540	9.8E-01	840	9.5E-01	1140	9.4E-01	2400	9.3E-01	3900	1.6E-01
250	< 1.0E-05	550	9.9E-01	850	9.5E-01	1150	9.4E-01	2450	9.2E-01	3950	1.6E-01
260	< 1.0E-05	560	9.9E-01	860	9.5E-01	1160	9.4E-01	2500	9.1E-01	4000	1.5E-01
270	< 1.0E-05	570	9.9E-01	870	9.5E-01	1170	9.4E-01	2550	9.0E-01	4050	1.4E-01
280	< 1.0E-05	580	9.9E-01	880	9.5E-01	1180	9.4E-01	2600	9.0E-01	4100	1.3E-01
290	< 1.0E-05	590	9.9E-01	890	9.5E-01	1190	9.4E-01	2650	8.8E-01	4150	1.1E-01
300	< 1.0E-05	600	9.9E-01	900	9.4E-01	1200	9.4E-01	2700	8.1E-01	4200	9.5E-02
310	< 1.0E-05	610	9.9E-01	910	9.4E-01	1250	9.4E-01	2750	3.4E-01	4250	7.6E-02
320	< 1.0E-05	620	9.9E-01	920	9.4E-01	1300	9.4E-01	2800	2.4E-01	4300	5.5E-02
330	< 1.0E-05	630	9.9E-01	930	9.4E-01	1350	9.4E-01	2850	2.5E-01	4350	3.5E-02
340	< 1.0E-05	640	9.8E-01	940	9.4E-01	1400	9.4E-01	2900	2.6E-01	4400	1.9E-02
350	< 1.0E-05	650	9.8E-01	950	9.4E-01	1450	9.5E-01	2950	2.7E-01	4450	8.2E-03
360	< 1.0E-05	660	9.8E-01	960	9.4E-01	1500	9.6E-01	3000	2.8E-01	4500	2.9E-03
370	< 1.0E-05	670	9.8E-01	970	9.4E-01	1550	9.6E-01	3050	2.7E-01	4550	1.0E-03
380	< 1.0E-05	680	9.8E-01	980	9.4E-01	1600	9.6E-01	3100	2.6E-01	4600	3.0E-04
390	< 1.0E-05	690	9.8E-01	990	9.4E-01	1650	9.7E-01	3150	2.4E-01	4650	9.6E-05
400	< 1.0E-05	700	9.8E-01	1000	9.4E-01	1700	9.7E-01	3200	2.3E-01	4700	3.4E-05
410	< 1.0E-05	710	9.7E-01	1010	9.4E-01	1750	9.6E-01	3250	2.1E-01	4750	1.5E-05
420	< 1.0E-05	720	9.7E-01	1020	9.4E-01	1800	9.6E-01	3300	1.9E-01	4800	< 1.0E-05
430	< 1.0E-05	730	9.7E-01	1030	9.4E-01	1850	9.6E-01	3350	1.8E-01	4850	< 1.0E-05
440	< 1.0E-05	740	9.7E-01	1040	9.4E-01	1900	9.6E-01	3400	1.6E-01	4900	< 1.0E-05
450	< 1.0E-05	750	9.7E-01	1050	9.4E-01	1950	9.6E-01	3450	1.5E-01	4950	< 1.0E-05
460	< 1.0E-05	760	9.7E-01	1060	9.4E-01	2000	9.6E-01	3500	1.4E-01	5000	< 1.0E-05
470	< 1.0E-05	770	9.6E-01	1070	9.4E-01	2050	9.5E-01	3550	1.4E-01	5050	< 1.0E-05
480	2.8E-03	780	9.6E-01	1080	9.4E-01	2100	9.5E-01	3600	1.4E-01	5100	< 1.0E-05
490	2.2E-01	790	9.6E-01	1090	9.4E-01	2150	9.4E-01	3650	1.4E-01	5150	< 1.0E-05