

OG530

Reflection factor	
P_d	0.92

Reference thickness	
d [mm]	3

Spectral values guaranteed	
λ_c ($\tau_i = 0.50$) [nm]	= 530 ± 6
λ_s ($\tau_{is} = 1 \cdot 10^{-5}$) [nm]	= 460
λ_p ($\tau_{ip} = 0.93$) [nm]	= 600

Refractive index n		
λ [nm]	Element	n
546	Hg	1.51
588	He	1.51
852	Cs	1.51
1014	Hg	1.50

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]	506

Thermal expansion	
$\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	7.9
$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	9.0
$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]	

Temperature coefficient	
T_k [nm/°C]	0.11

Notes

Colloidally colored glass

Long pass filter

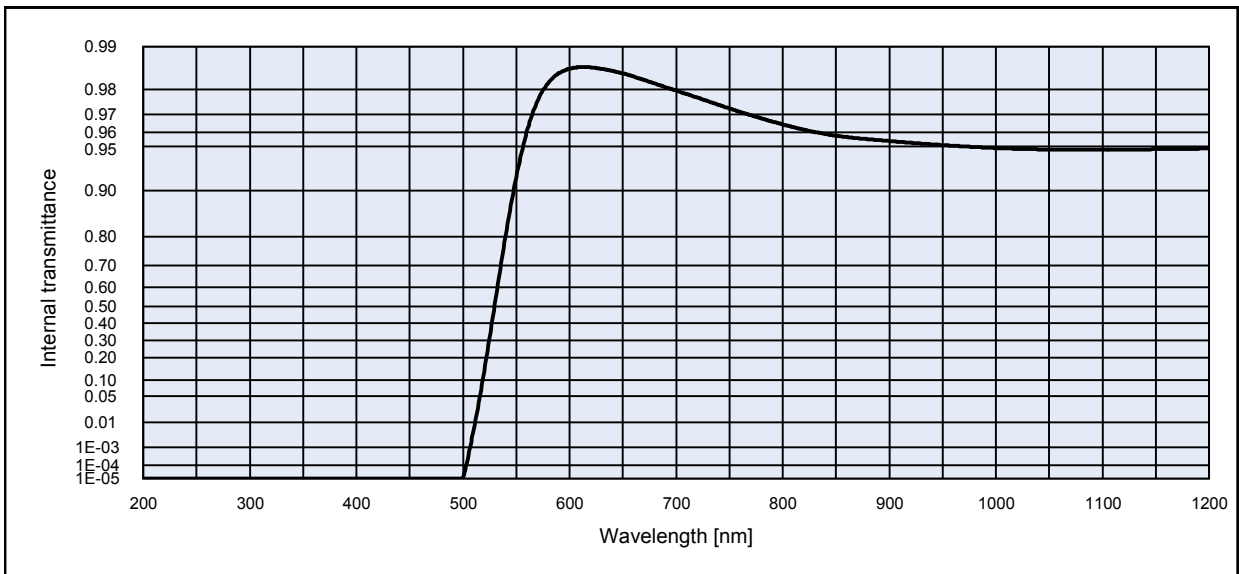
All data without tolerances are to be understood to be reference values. Guaranteed values are only those values listed in the section "Spectral values guaranteed".

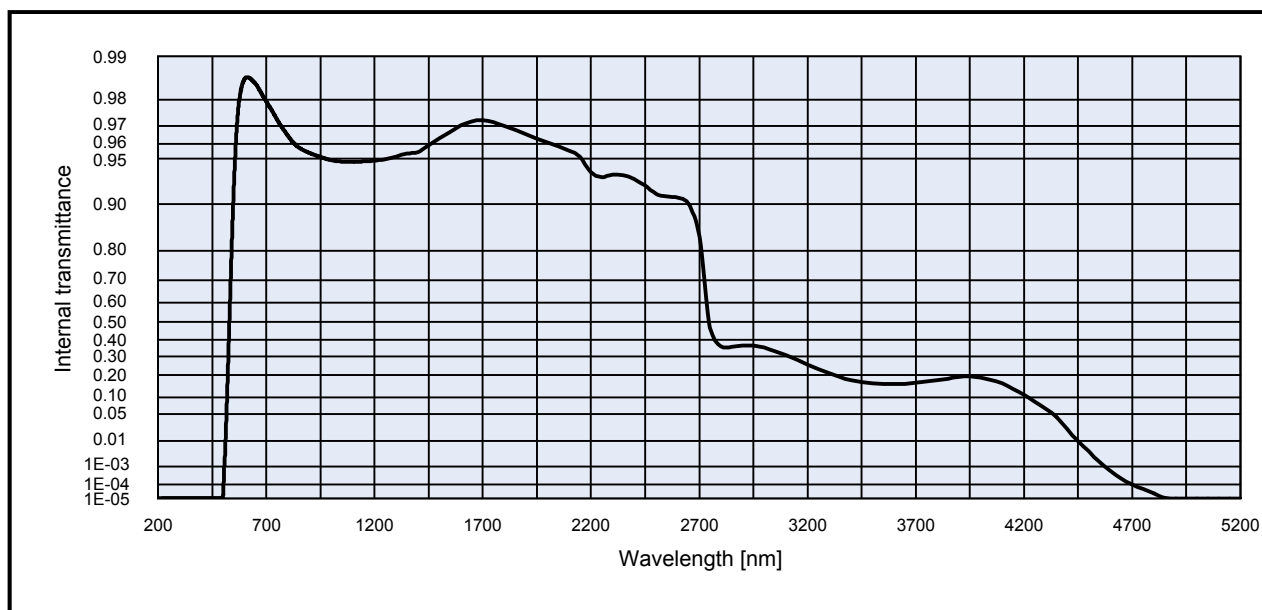
Colorimetric evaluation

Illuminant	A (Planck T = 2856 K)		
	1	2	3
d [mm]			
x	0.534	0.545	0.550
y	0.457	0.452	0.447
Y	81	78	75
λ_d [nm]	584	585	586
P_e	0.94	0.98	0.98

Illuminant	Planck T = 3200 K		
	1	2	3
d [mm]			
x	0.524	0.536	0.542
y	0.466	0.460	0.454
Y	80	76	74
λ_d [nm]	583	584	585
P_e	0.94	0.98	0.99

Illuminant	D65 ($T_c = 6504$ K)		
	1	2	3
d [mm]			
x	0.476	0.496	0.505
y	0.501	0.498	0.490
Y	74	69	66
λ_d [nm]	576	578	579
P_e	0.94	0.99	0.99





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	< 1.0E-05	800	9.6E-01	1100	9.5E-01	2200	9.4E-01	3700	1.6E-01
210	< 1.0E-05	510	5.2E-03	810	9.6E-01	1110	9.5E-01	2250	9.3E-01	3750	1.7E-01
220	< 1.0E-05	520	1.4E-01	820	9.6E-01	1120	9.5E-01	2300	9.4E-01	3800	1.8E-01
230	< 1.0E-05	530	5.1E-01	830	9.6E-01	1130	9.5E-01	2350	9.4E-01	3850	1.8E-01
240	< 1.0E-05	540	8.0E-01	840	9.6E-01	1140	9.5E-01	2400	9.3E-01	3900	1.9E-01
250	< 1.0E-05	550	9.2E-01	850	9.6E-01	1150	9.5E-01	2450	9.2E-01	3950	1.9E-01
260	< 1.0E-05	560	9.6E-01	860	9.6E-01	1160	9.5E-01	2500	9.1E-01	4000	1.9E-01
270	< 1.0E-05	570	9.8E-01	870	9.6E-01	1170	9.5E-01	2550	9.1E-01	4050	1.8E-01
280	< 1.0E-05	580	9.8E-01	880	9.6E-01	1180	9.5E-01	2600	9.1E-01	4100	1.6E-01
290	< 1.0E-05	590	9.8E-01	890	9.5E-01	1190	9.5E-01	2650	9.0E-01	4150	1.3E-01
300	< 1.0E-05	600	9.9E-01	900	9.5E-01	1200	9.5E-01	2700	8.4E-01	4200	1.1E-01
310	< 1.0E-05	610	9.9E-01	910	9.5E-01	1250	9.5E-01	2750	4.7E-01	4250	8.5E-02
320	< 1.0E-05	620	9.9E-01	920	9.5E-01	1300	9.5E-01	2800	3.6E-01	4300	6.3E-02
330	< 1.0E-05	630	9.9E-01	930	9.5E-01	1350	9.5E-01	2850	3.6E-01	4350	4.3E-02
340	< 1.0E-05	640	9.9E-01	940	9.5E-01	1400	9.5E-01	2900	3.6E-01	4400	2.3E-02
350	< 1.0E-05	650	9.8E-01	950	9.5E-01	1450	9.6E-01	2950	3.6E-01	4450	1.0E-02
360	< 1.0E-05	660	9.8E-01	960	9.5E-01	1500	9.6E-01	3000	3.5E-01	4500	4.3E-03
370	< 1.0E-05	670	9.8E-01	970	9.5E-01	1550	9.7E-01	3050	3.3E-01	4550	1.6E-03
380	< 1.0E-05	680	9.8E-01	980	9.5E-01	1600	9.7E-01	3100	3.1E-01	4600	5.9E-04
390	< 1.0E-05	690	9.8E-01	990	9.5E-01	1650	9.7E-01	3150	2.8E-01	4650	2.3E-04
400	< 1.0E-05	700	9.8E-01	1000	9.5E-01	1700	9.7E-01	3200	2.6E-01	4700	1.0E-04
410	< 1.0E-05	710	9.8E-01	1010	9.5E-01	1750	9.7E-01	3250	2.3E-01	4750	4.9E-05
420	< 1.0E-05	720	9.8E-01	1020	9.5E-01	1800	9.7E-01	3300	2.1E-01	4800	2.4E-05
430	< 1.0E-05	730	9.8E-01	1030	9.5E-01	1850	9.7E-01	3350	1.9E-01	4850	1.1E-05
440	< 1.0E-05	740	9.7E-01	1040	9.5E-01	1900	9.7E-01	3400	1.7E-01	4900	< 1.0E-05
450	< 1.0E-05	750	9.7E-01	1050	9.5E-01	1950	9.6E-01	3450	1.6E-01	4950	< 1.0E-05
460	< 1.0E-05	760	9.7E-01	1060	9.5E-01	2000	9.6E-01	3500	1.6E-01	5000	< 1.0E-05
470	< 1.0E-05	770	9.7E-01	1070	9.5E-01	2050	9.6E-01	3550	1.6E-01	5050	< 1.0E-05
480	< 1.0E-05	780	9.7E-01	1080	9.5E-01	2100	9.6E-01	3600	1.5E-01	5100	< 1.0E-05
490	< 1.0E-05	790	9.7E-01	1090	9.5E-01	2150	9.5E-01	3650	1.6E-01	5150	< 1.0E-05