

RG665

Density	
ρ [g/cm ³]	2.77

Notes

Colloidally colored glass

Reflection factor	
P_d	0.91

Bubble content	
Bubble class	3

Long pass filter

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]	= 665 ± 6
λ_s ($\tau_{is} = 1 \cdot 10^{-5}$) [nm]	= 580
λ_p ($\tau_{ip} = 0.96$) [nm]	= 750

Transformation temperature	
T_g [°C]	527

Thermal expansion	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.1
$\alpha_{20/300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.4
$\alpha_{20/200^\circ\text{C}}$ [$10^{-6}/\text{K}$]	

Refractive index n		
λ [nm]	Element	n
587.6	He	1.54
852.1	Cs	1.53
1014	Hg	1.53

Temperature coefficient	
T_k [nm/°C]	0.17

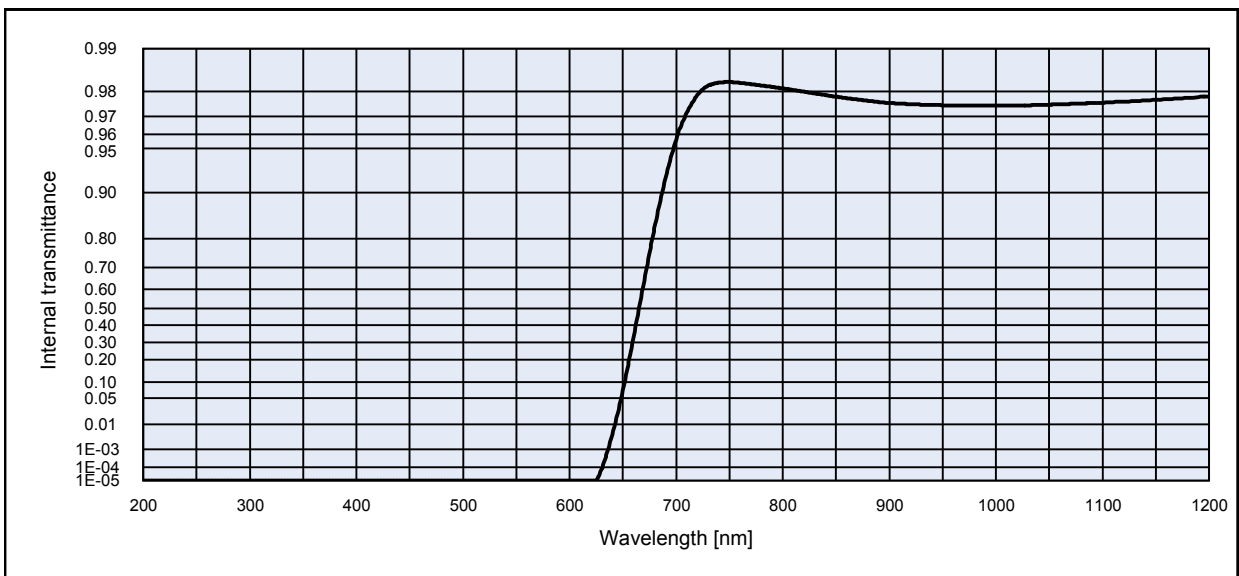
All data without tolerances are to be understood to be reference values.
Guaranteed values are only those values listed in the section "Spectral values guaranteed".

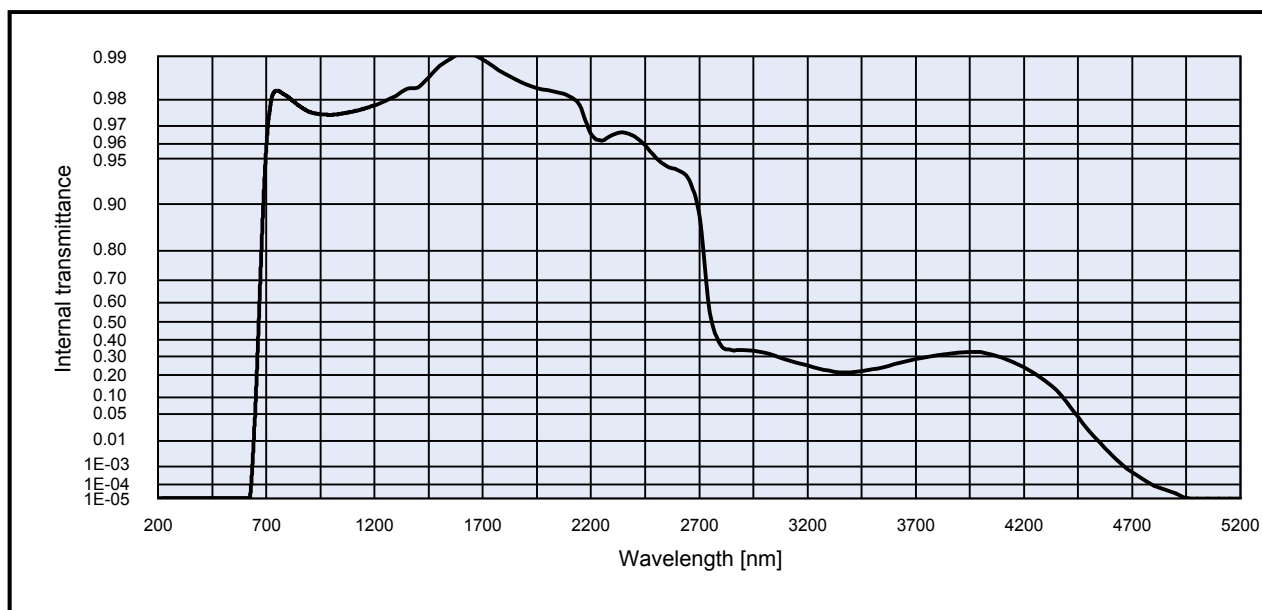
Colorimetric evaluation

Illuminant	A (Planck T = 2856 K)		
	1	2	3
d [mm]	1	2	3
x	0.631	0.726	0.732
y	0.318	0.272	0.268
Y	4	2	1
λ_d [nm]	656	664	671
P_e	0.65	0.98	1.00

Illuminant	Planck T = 3200 K		
	1	2	3
d [mm]	1	2	3
x	0.612	0.724	0.732
y	0.320	0.272	0.268
Y	4	1	1
λ_d [nm]	656	664	670
P_e	0.62	0.98	1.00

Illuminant	D65 ($T_c = 6504$ K)		
	1	2	3
d [mm]	1	2	3
x	0.487	0.711	0.731
y	0.305	0.272	0.268
Y	3	1	1
λ_d [nm]	654	662	668
P_e	0.42	0.95	1.00





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	9.8E-01	1100	9.8E-01	2200	9.7E-01	3700	2.9E-01
210	< 1.0E-05	510	< 1.0E-05	810	9.8E-01	1110	9.8E-01	2250	9.6E-01	3750	3.0E-01
220	< 1.0E-05	520	< 1.0E-05	820	9.8E-01	1120	9.8E-01	2300	9.7E-01	3800	3.1E-01
230	< 1.0E-05	530	< 1.0E-05	830	9.8E-01	1130	9.8E-01	2350	9.7E-01	3850	3.2E-01
240	< 1.0E-05	540	< 1.0E-05	840	9.8E-01	1140	9.8E-01	2400	9.6E-01	3900	3.2E-01
250	< 1.0E-05	550	< 1.0E-05	850	9.8E-01	1150	9.8E-01	2450	9.6E-01	3950	3.3E-01
260	< 1.0E-05	560	< 1.0E-05	860	9.8E-01	1160	9.8E-01	2500	9.5E-01	4000	3.3E-01
270	< 1.0E-05	570	< 1.0E-05	870	9.8E-01	1170	9.8E-01	2550	9.4E-01	4050	3.1E-01
280	< 1.0E-05	580	< 1.0E-05	880	9.8E-01	1180	9.8E-01	2600	9.4E-01	4100	2.9E-01
290	< 1.0E-05	590	< 1.0E-05	890	9.8E-01	1190	9.8E-01	2650	9.3E-01	4150	2.7E-01
300	< 1.0E-05	600	< 1.0E-05	900	9.8E-01	1200	9.8E-01	2700	8.8E-01	4200	2.4E-01
310	< 1.0E-05	610	< 1.0E-05	910	9.8E-01	1250	9.8E-01	2750	5.5E-01	4250	2.1E-01
320	< 1.0E-05	620	< 1.0E-05	920	9.8E-01	1300	9.8E-01	2800	3.7E-01	4300	1.7E-01
330	< 1.0E-05	630	7.4E-05	930	9.8E-01	1350	9.8E-01	2850	3.4E-01	4350	1.3E-01
340	< 1.0E-05	640	4.3E-03	940	9.8E-01	1400	9.8E-01	2900	3.4E-01	4400	8.3E-02
350	< 1.0E-05	650	7.2E-02	950	9.7E-01	1450	9.9E-01	2950	3.4E-01	4450	4.4E-02
360	< 1.0E-05	660	3.3E-01	960	9.7E-01	1500	9.9E-01	3000	3.3E-01	4500	2.0E-02
370	< 1.0E-05	670	6.4E-01	970	9.7E-01	1550	9.9E-01	3050	3.1E-01	4550	9.2E-03
380	< 1.0E-05	680	8.3E-01	980	9.7E-01	1600	9.9E-01	3100	2.8E-01	4600	3.5E-03
390	< 1.0E-05	690	9.2E-01	990	9.7E-01	1650	9.9E-01	3150	2.7E-01	4650	1.3E-03
400	< 1.0E-05	700	9.6E-01	1000	9.7E-01	1700	9.9E-01	3200	2.5E-01	4700	5.0E-04
410	< 1.0E-05	710	9.7E-01	1010	9.7E-01	1750	9.9E-01	3250	2.3E-01	4750	2.0E-04
420	< 1.0E-05	720	9.8E-01	1020	9.7E-01	1800	9.9E-01	3300	2.2E-01	4800	8.7E-05
430	< 1.0E-05	730	9.8E-01	1030	9.7E-01	1850	9.9E-01	3350	2.1E-01	4850	4.5E-05
440	< 1.0E-05	740	9.8E-01	1040	9.8E-01	1900	9.8E-01	3400	2.1E-01	4900	2.5E-05
450	< 1.0E-05	750	9.8E-01	1050	9.8E-01	1950	9.8E-01	3450	2.2E-01	4950	1.2E-05
460	< 1.0E-05	760	9.8E-01	1060	9.8E-01	2000	9.8E-01	3500	2.3E-01	5000	< 1.0E-05
470	< 1.0E-05	770	9.8E-01	1070	9.8E-01	2050	9.8E-01	3550	2.4E-01	5050	< 1.0E-05
480	< 1.0E-05	780	9.8E-01	1080	9.8E-01	2100	9.8E-01	3600	2.6E-01	5100	< 1.0E-05
490	< 1.0E-05	790	9.8E-01	1090	9.8E-01	2150	9.8E-01	3650	2.7E-01	5150	< 1.0E-05