

RG9

Reflection factor	
P_d	0.92

Reference thickness	
d [mm]	3

Spectral values guaranteed	
τ_i (720 nm)	≤ 0.45
τ_i (800 nm)	≥ 0.92
τ_i (1060 nm)	≤ 0.40

Refractive index n		
λ [nm]	Element	n
587.6	He	1.52
852.1	Cs	1.51
1014	Hg	1.50

Density	
ρ [g/cm ³]	2.58

Bubble content	
Bubble class	3

Chemical resistance	
FR class	0
SR class	1.0
AR class	1.0

Transformation temperature	
T_g [°C]	519

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]	0.06

Notes

Ionically / Colloidally colored glass

Band pass filter / long pass filter

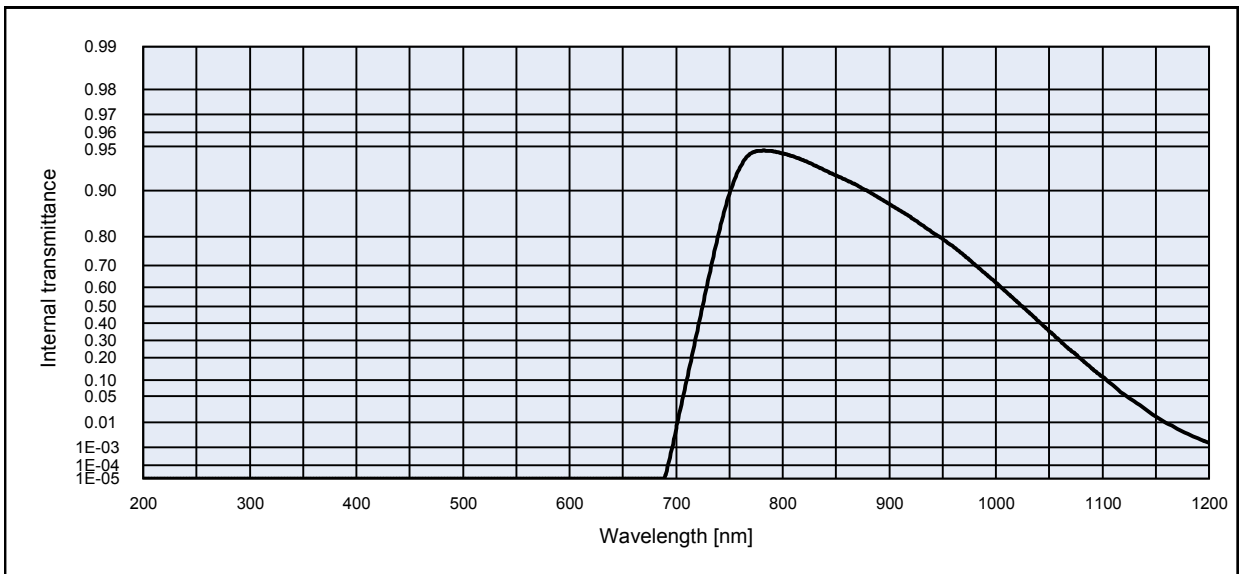
All data without tolerances are to be understood to be reference values. Guaranteed values are only those values listed in the section "Spectral values guaranteed".

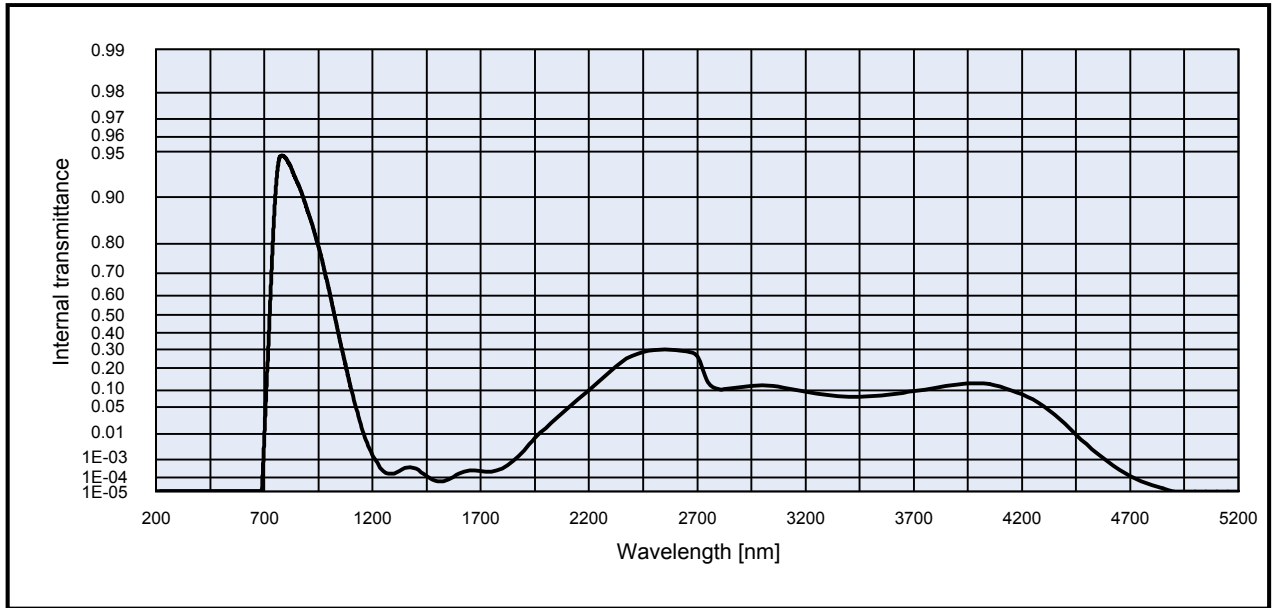
Colorimetric evaluation

Illuminant	A (Planck T = 2856 K)		
	1	2	3
d [mm]			
x			
y			
Y			
λ_d [nm]			
P_e			

Illuminant	Planck T = 3200 K		
	1	2	3
d [mm]			
x			
y			
Y			
λ_d [nm]			
P_e			

Illuminant	D65 (T _c = 6504 K)		
	1	2	3
d [mm]			
x			
y			
Y			
λ_d [nm]			
P_e			





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	9.4E-01	1100	1.1E-01	2200	1.0E-01	3700	9.7E-02
210	< 1.0E-05	510	< 1.0E-05	810	9.4E-01	1110	8.1E-02	2250	1.4E-01	3750	1.0E-01
220	< 1.0E-05	520	< 1.0E-05	820	9.4E-01	1120	5.6E-02	2300	1.8E-01	3800	1.1E-01
230	< 1.0E-05	530	< 1.0E-05	830	9.3E-01	1130	3.9E-02	2350	2.3E-01	3850	1.2E-01
240	< 1.0E-05	540	< 1.0E-05	840	9.3E-01	1140	2.5E-02	2400	2.6E-01	3900	1.2E-01
250	< 1.0E-05	550	< 1.0E-05	850	9.2E-01	1150	1.6E-02	2450	2.9E-01	3950	1.3E-01
260	< 1.0E-05	560	< 1.0E-05	860	9.1E-01	1160	9.6E-03	2500	3.0E-01	4000	1.3E-01
270	< 1.0E-05	570	< 1.0E-05	870	9.1E-01	1170	6.1E-03	2550	3.0E-01	4050	1.3E-01
280	< 1.0E-05	580	< 1.0E-05	880	9.0E-01	1180	3.9E-03	2600	3.0E-01	4100	1.1E-01
290	< 1.0E-05	590	< 1.0E-05	890	8.9E-01	1190	2.5E-03	2650	2.9E-01	4150	1.0E-01
300	< 1.0E-05	600	< 1.0E-05	900	8.8E-01	1200	1.6E-03	2700	2.6E-01	4200	8.6E-02
310	< 1.0E-05	610	< 1.0E-05	910	8.7E-01	1250	2.5E-04	2750	1.3E-01	4250	7.0E-02
320	< 1.0E-05	620	< 1.0E-05	920	8.5E-01	1300	1.8E-04	2800	1.0E-01	4300	5.2E-02
330	< 1.0E-05	630	< 1.0E-05	930	8.3E-01	1350	3.7E-04	2850	1.1E-01	4350	3.4E-02
340	< 1.0E-05	640	< 1.0E-05	940	8.1E-01	1400	3.4E-04	2900	1.1E-01	4400	2.0E-02
350	< 1.0E-05	650	< 1.0E-05	950	7.9E-01	1450	1.3E-04	2950	1.2E-01	4450	9.8E-03
360	< 1.0E-05	660	< 1.0E-05	960	7.7E-01	1500	5.7E-05	3000	1.2E-01	4500	4.4E-03
370	< 1.0E-05	670	< 1.0E-05	970	7.4E-01	1550	7.8E-05	3050	1.2E-01	4550	1.8E-03
380	< 1.0E-05	680	< 1.0E-05	980	7.1E-01	1600	1.7E-04	3100	1.1E-01	4600	7.2E-04
390	< 1.0E-05	690	1.9E-05	990	6.7E-01	1650	2.7E-04	3150	1.0E-01	4650	2.8E-04
400	< 1.0E-05	700	6.4E-03	1000	6.2E-01	1700	2.4E-04	3200	9.5E-02	4700	1.2E-04
410	< 1.0E-05	710	9.9E-02	1010	5.8E-01	1750	2.2E-04	3250	8.9E-02	4750	5.8E-05
420	< 1.0E-05	720	3.6E-01	1020	5.2E-01	1800	3.3E-04	3300	8.4E-02	4800	3.2E-05
430	< 1.0E-05	730	6.3E-01	1030	4.7E-01	1850	8.6E-04	3350	8.0E-02	4850	1.7E-05
440	< 1.0E-05	740	8.1E-01	1040	4.1E-01	1900	2.5E-03	3400	7.7E-02	4900	< 1.0E-05
450	< 1.0E-05	750	9.0E-01	1050	3.5E-01	1950	7.4E-03	3450	7.8E-02	4950	< 1.0E-05
460	< 1.0E-05	760	9.3E-01	1060	3.0E-01	2000	1.5E-02	3500	7.9E-02	5000	< 1.0E-05
470	< 1.0E-05	770	9.4E-01	1070	2.4E-01	2050	2.8E-02	3550	8.2E-02	5050	< 1.0E-05
480	< 1.0E-05	780	9.5E-01	1080	1.9E-01	2100	4.6E-02	3600	8.7E-02	5100	< 1.0E-05
490	< 1.0E-05	790	9.5E-01	1090	1.5E-01	2150	7.0E-02	3650	9.2E-02	5150	< 1.0E-05