Data Sheet

SCHOTT

UG11

Reflection factor	
P_d	0.91

Reference thickness	
d [mm]	1

Spectral values guaranteed		
τi (254 nm)	≥	0.06
τi (334 nm)	≥	0.90
τi (405 nm)	≤	0.001
τi (694 nm)	≤	0.26
τi (725 nm)	≤	0.32

Refractive index n		
λ [nm]	Element	n
365	Hg	1.59
587.6	He	1.56

Density	
ρ [g/cm^3]	2.92

Bubble content	
Bubble class	2

Chemical resistance	
FR class	0
SR class	3.0
AR class	2.2

Transformation temperature	
Tg [°C]	545

Thermal expansion	
$\alpha_{-30/+70°C}$ [10^{-6}/K]	7.8
$\alpha_{20/300°C}$ [10^{-6}/K]	9.0
$\alpha_{20/200°C}$ [10^{-6}/K]	

Temperature coefficient	
T_k [nm/°C]	

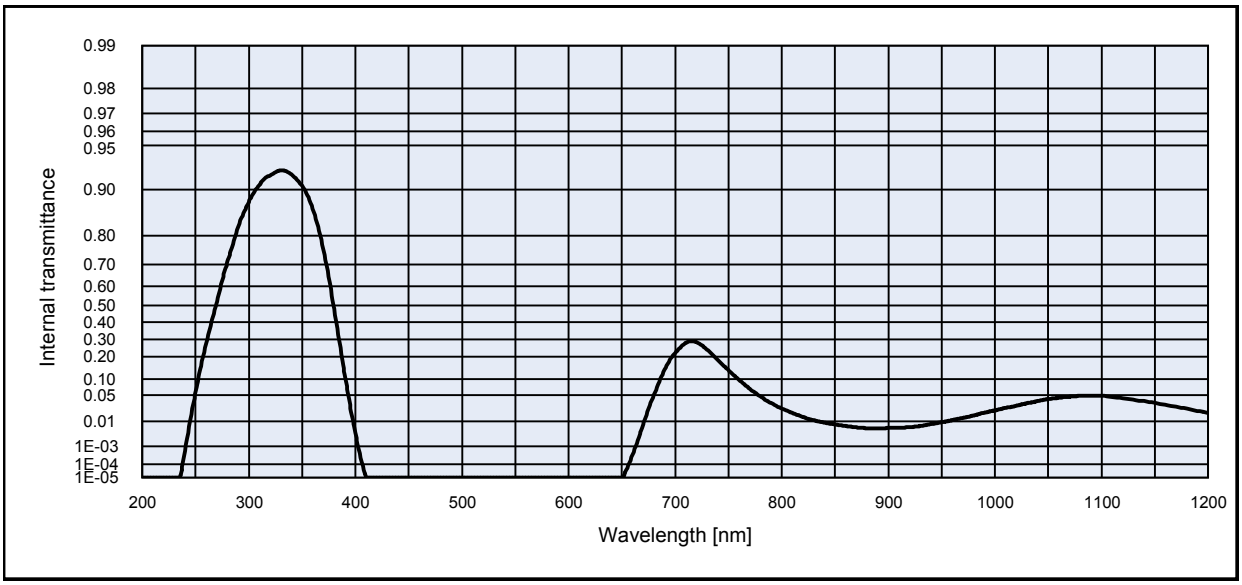
Notes
Ionically colored glass
Band pass filter
[!!]
Long-term changes in the polished
surface are possible
V
Transmission changes are possible
under the action of intense
ultraviolet radiation
All data without tolerances are to be
understood to be reference values.
Guaranteed values are only those
values listed in the section
"Spectral values guaranteed".

Colorimetric evaluation

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

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

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



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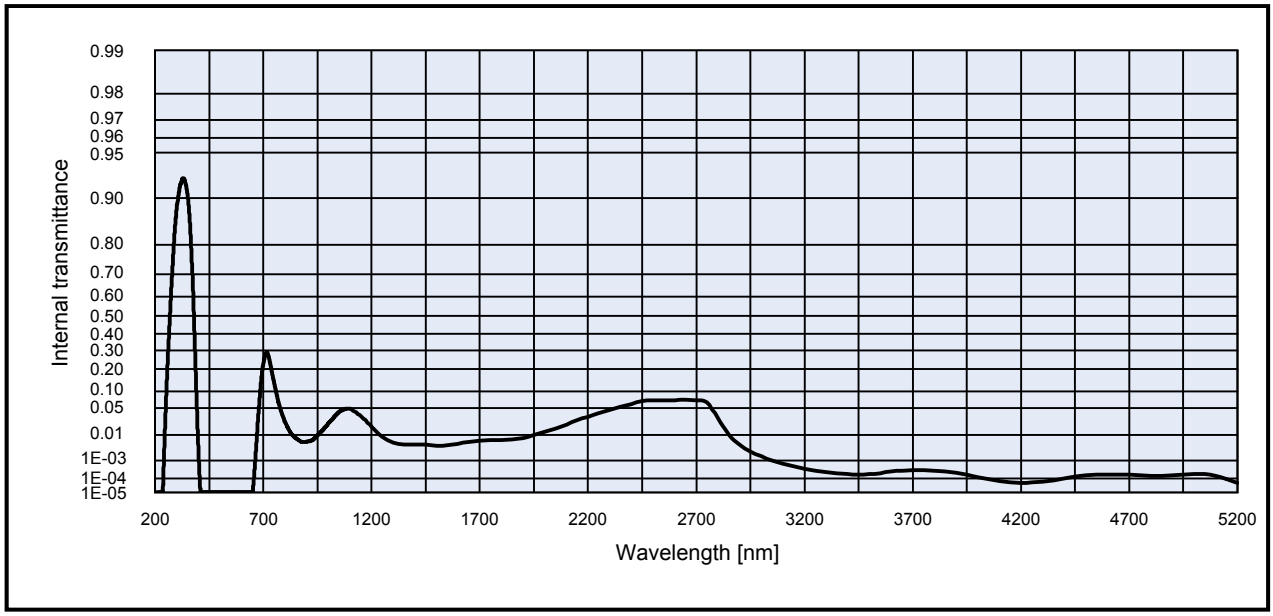

Internal transmittance τ_i at reference thickness d [mm] = 1
The internal transmittance values, tabulated and graphically represented, are reference values only

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	2.4E-02	1100	4.9E-02	2200	3.2E-02	3700	3.2E-04
210	< 1.0E-05	510	< 1.0E-05	810	1.8E-02	1110	4.6E-02	2250	3.8E-02	3750	3.2E-04
220	< 1.0E-05	520	< 1.0E-05	820	1.4E-02	1120	4.3E-02	2300	4.6E-02	3800	3.0E-04
230	< 1.0E-05	530	< 1.0E-05	830	1.1E-02	1130	3.9E-02	2350	5.3E-02	3850	2.6E-04
240	6.1E-04	540	< 1.0E-05	840	9.1E-03	1140	3.7E-02	2400	6.0E-02	3900	2.2E-04
250	5.6E-02	550	< 1.0E-05	850	8.0E-03	1150	3.3E-02	2450	6.8E-02	3950	1.7E-04
260	2.8E-01	560	< 1.0E-05	860	7.0E-03	1160	3.0E-02	2500	7.0E-02	4000	1.2E-04
270	5.2E-01	570	< 1.0E-05	870	6.3E-03	1170	2.7E-02	2550	7.0E-02	4050	9.0E-05
280	7.1E-01	580	< 1.0E-05	880	5.9E-03	1180	2.4E-02	2600	7.0E-02	4100	6.7E-05
290	8.3E-01	590	< 1.0E-05	890	5.8E-03	1190	2.1E-02	2650	7.2E-02	4150	5.7E-05
300	8.8E-01	600	< 1.0E-05	900	5.9E-03	1200	1.8E-02	2700	7.0E-02	4200	5.2E-05
310	9.1E-01	610	< 1.0E-05	910	6.1E-03	1250	8.8E-03	2750	6.4E-02	4250	5.4E-05
320	9.2E-01	620	< 1.0E-05	920	6.4E-03	1300	5.5E-03	2800	3.0E-02	4300	6.1E-05
330	9.3E-01	630	< 1.0E-05	930	7.0E-03	1350	4.6E-03	2850	1.1E-02	4350	7.6E-05
340	9.2E-01	640	< 1.0E-05	940	8.1E-03	1400	4.8E-03	2900	4.8E-03	4400	1.0E-04
350	9.1E-01	650	< 1.0E-05	950	9.4E-03	1450	4.7E-03	2950	2.5E-03	4450	1.4E-04
360	8.7E-01	660	3.6E-04	960	1.1E-02	1500	4.3E-03	3000	1.6E-03	4500	1.7E-04
370	7.6E-01	670	8.1E-03	970	1.3E-02	1550	4.3E-03	3050	1.0E-03	4550	1.7E-04
380	4.8E-01	680	5.0E-02	980	1.5E-02	1600	5.0E-03	3100	7.0E-04	4600	1.8E-04
390	1.2E-01	690	1.4E-01	990	1.8E-02	1650	6.0E-03	3150	5.0E-04	4650	1.7E-04
400	4.0E-03	700	2.2E-01	1000	2.1E-02	1700	6.6E-03	3200	3.7E-04	4700	1.7E-04
410	1.0E-05	710	2.8E-01	1010	2.5E-02	1750	6.7E-03	3250	2.9E-04	4750	1.6E-04
420	< 1.0E-05	720	2.8E-01	1020	2.8E-02	1800	6.8E-03	3300	2.4E-04	4800	1.5E-04
430	< 1.0E-05	730	2.4E-01	1030	3.3E-02	1850	7.2E-03	3350	2.1E-04	4850	1.5E-04
440	< 1.0E-05	740	1.9E-01	1040	3.7E-02	1900	8.0E-03	3400	1.8E-04	4900	1.6E-04
450	< 1.0E-05	750	1.4E-01	1050	4.1E-02	1950	1.0E-02	3450	1.8E-04	4950	1.7E-04
460	< 1.0E-05	760	9.7E-02	1060	4.4E-02	2000	1.2E-02	3500	1.9E-04	5000	1.9E-04
470	< 1.0E-05	770	6.7E-02	1070	4.6E-02	2050	1.6E-02	3550	2.1E-04	5050	1.9E-04
480	< 1.0E-05	780	4.7E-02	1080	4.8E-02	2100	2.0E-02	3600	2.6E-04	5100	1.4E-04
490	< 1.0E-05	790	3.3E-02	1090	4.8E-02	2150	2.6E-02	3650	3.0E-04	5150	9.4E-05