Data Sheet

SCHOTT

NG9

Reflection factor	
P_d	0.92

Reference thickness	
d [mm]	1

Spectral values guaranteed			
τi (405 nm)	=	0.025	± 0.01
τi (546 nm)	=	0.04	± 0.02
τi (694 nm)	=	0.08	± 0.02

Refractive index n		
λ [nm]	Element	n
587.6	He	1.51

Density	
ρ [g/cm^3]	2.45

Bubble content	
Bubble class	2

Chemical resistance	
FR class	1
SR class	3.2
AR class	2.0

Transformation temperature	
Tg [°C]	470

Thermal expansion	
$\alpha_{-30/+70°C}$ [10^{-6}/K]	6.4
$\alpha_{20/300°C}$ [10^{-6}/K]	7.2
$\alpha_{20/200°C}$ [10^{-6}/K]	

Temperature coefficient	
T_k [nm/°C]	

Notes
Ionically colored glass
Neutral density filter

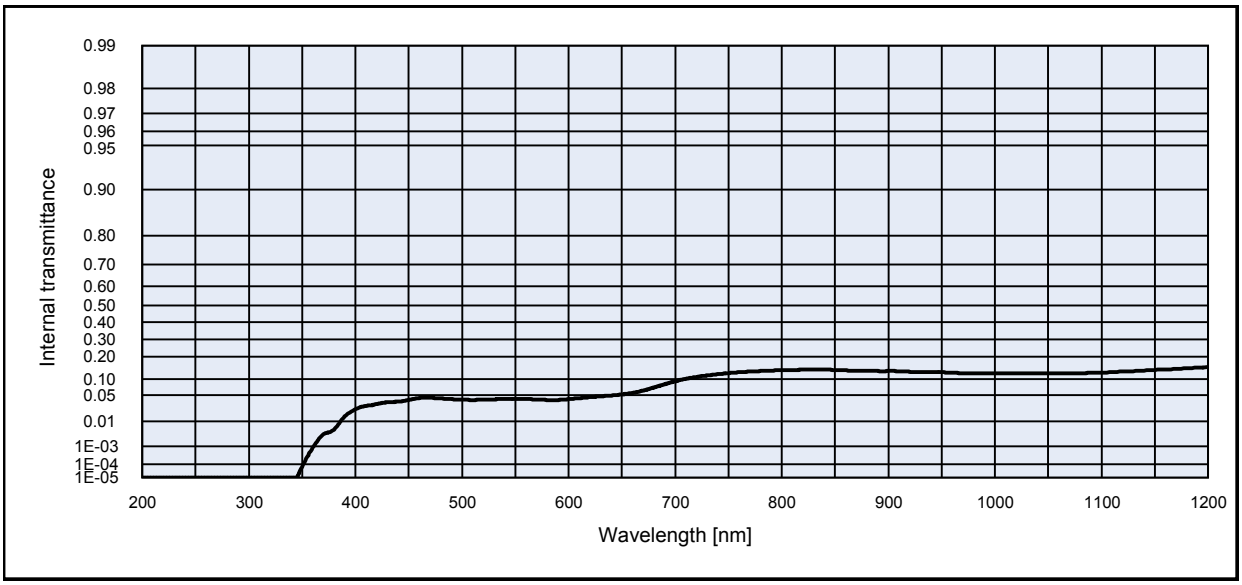
All data without tolerances are to be understood to be reference values. Guaranteed values are only those values listed in the section "Spectral values guaranteed".

Colorimetric evaluation

Illuminant	A (Planck T = 2856 K)		
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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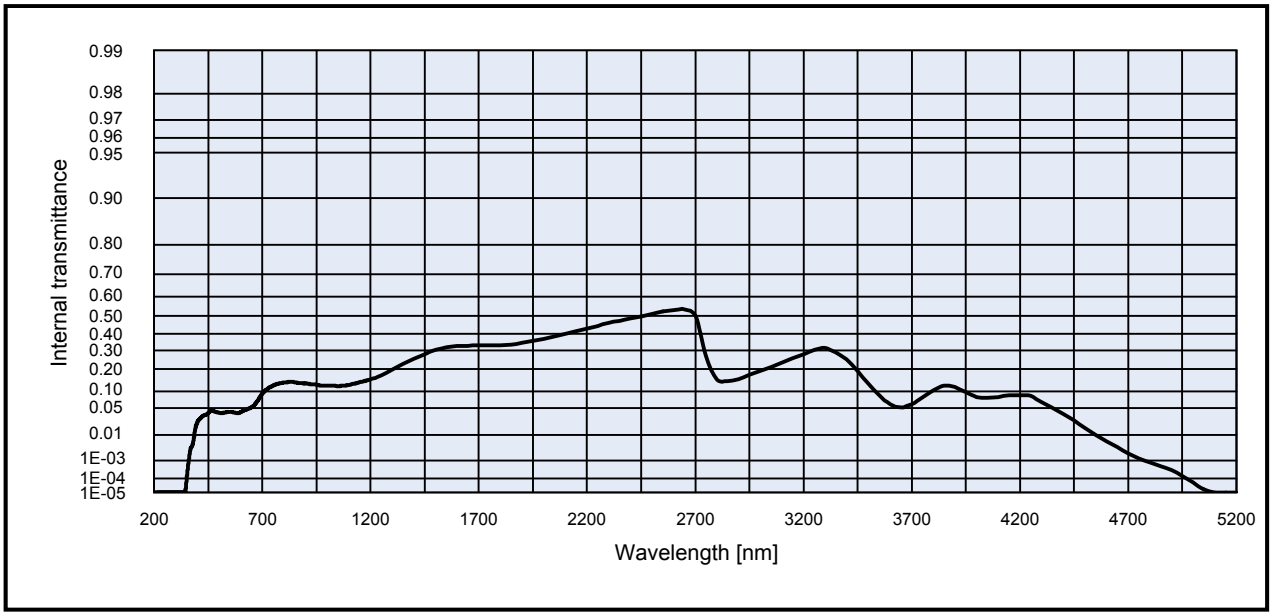

Internal transmittance τ_i at reference thickness d [mm] = 1
The internal transmittance values, tabulated and graphically represented, are reference values only

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	4.0E-02	800	1.4E-01	1100	1.3E-01	2200	4.3E-01	3700	6.0E-02
210	< 1.0E-05	510	3.9E-02	810	1.4E-01	1110	1.3E-01	2250	4.4E-01	3750	8.1E-02
220	< 1.0E-05	520	3.9E-02	820	1.4E-01	1120	1.3E-01	2300	4.6E-01	3800	1.1E-01
230	< 1.0E-05	530	4.0E-02	830	1.4E-01	1130	1.3E-01	2350	4.7E-01	3850	1.2E-01
240	< 1.0E-05	540	4.1E-02	840	1.4E-01	1140	1.3E-01	2400	4.9E-01	3900	1.2E-01
250	< 1.0E-05	550	4.2E-02	850	1.4E-01	1150	1.4E-01	2450	5.0E-01	3950	9.9E-02
260	< 1.0E-05	560	4.1E-02	860	1.3E-01	1160	1.4E-01	2500	5.1E-01	4000	8.0E-02
270	< 1.0E-05	570	4.0E-02	870	1.3E-01	1170	1.4E-01	2550	5.3E-01	4050	7.8E-02
280	< 1.0E-05	580	3.9E-02	880	1.3E-01	1180	1.4E-01	2600	5.3E-01	4100	8.0E-02
290	< 1.0E-05	590	3.9E-02	890	1.3E-01	1190	1.5E-01	2650	5.3E-01	4150	8.6E-02
300	< 1.0E-05	600	4.1E-02	900	1.3E-01	1200	1.5E-01	2700	5.0E-01	4200	8.6E-02
310	< 1.0E-05	610	4.3E-02	910	1.3E-01	1250	1.7E-01	2750	2.7E-01	4250	8.4E-02
320	< 1.0E-05	620	4.5E-02	920	1.3E-01	1300	2.0E-01	2800	1.5E-01	4300	6.5E-02
330	< 1.0E-05	630	4.7E-02	930	1.3E-01	1350	2.3E-01	2850	1.4E-01	4350	5.0E-02
340	< 1.0E-05	640	4.9E-02	940	1.3E-01	1400	2.5E-01	2900	1.5E-01	4400	3.7E-02
350	6.4E-05	650	5.2E-02	950	1.3E-01	1450	2.8E-01	2950	1.7E-01	4450	2.6E-02
360	8.5E-04	660	5.5E-02	960	1.2E-01	1500	3.1E-01	3000	1.9E-01	4500	1.6E-02
370	3.4E-03	670	6.2E-02	970	1.2E-01	1550	3.2E-01	3050	2.1E-01	4550	1.0E-02
380	5.3E-03	680	7.0E-02	980	1.2E-01	1600	3.3E-01	3100	2.3E-01	4600	6.2E-03
390	1.5E-02	690	8.1E-02	990	1.2E-01	1650	3.3E-01	3150	2.6E-01	4650	3.8E-03
400	2.3E-02	700	9.1E-02	1000	1.2E-01	1700	3.3E-01	3200	2.8E-01	4700	2.1E-03
410	2.8E-02	710	1.0E-01	1010	1.2E-01	1750	3.3E-01	3250	3.0E-01	4750	1.2E-03
420	3.1E-02	720	1.1E-01	1020	1.2E-01	1800	3.3E-01	3300	3.1E-01	4800	7.7E-04
430	3.4E-02	730	1.1E-01	1030	1.2E-01	1850	3.4E-01	3350	2.9E-01	4850	5.2E-04
440	3.6E-02	740	1.2E-01	1040	1.2E-01	1900	3.5E-01	3400	2.5E-01	4900	3.1E-04
450	3.9E-02	750	1.2E-01	1050	1.2E-01	1950	3.6E-01	3450	1.9E-01	4950	1.5E-04
460	4.3E-02	760	1.3E-01	1060	1.2E-01	2000	3.7E-01	3500	1.3E-01	5000	5.8E-05
470	4.4E-02	770	1.3E-01	1070	1.2E-01	2050	3.8E-01	3550	8.8E-02	5050	1.8E-05
480	4.2E-02	780	1.3E-01	1080	1.2E-01	2100	4.0E-01	3600	6.0E-02	5100	< 1.0E-05
490	4.1E-02	790	1.3E-01	1090	1.2E-01	2150	4.1E-01	3650	5.1E-02	5150	< 1.0E-05