DATA SHEET

SCHOTT UG2A

UG2A

Reflection factor	
P_d	0.918

Reference thickness	
d [mm]	3

Spectral values guaranteed		
τ_i (303nm)	≤	0.07
τ_i (365nm)	≥	0.81
τ_i (405nm)	≤	0.1
τ_i (694nm)	≤	0.04
τ_i (750nm)	≤	0.52

Refractive Index n
n (296.7 nm) = 1.567
n (302.1 nm) = 1.565
n_i (365.0 nm) = 1.546
n_e (546.1 nm) = 1.525
Sellmeier coefficients on request

Density	
ρ [g/cm^3]	2.60

Bubble content	
Bubble class	2

Chemical Resistance	
FR class	0
SR class	1.0
AR class	1.3

Transformation temperature	
Tg [°C]	484

Thermal expansion	
$\alpha_{-30/+70°C}$ [10^{-6}/K]	8.7
$\alpha_{20/300°C}$ [10^{-6}/K]	9.9
$\alpha_{20/200°C}$ [10^{-6}/K]	

Temperature coefficient	
T_K [nm/°C]	

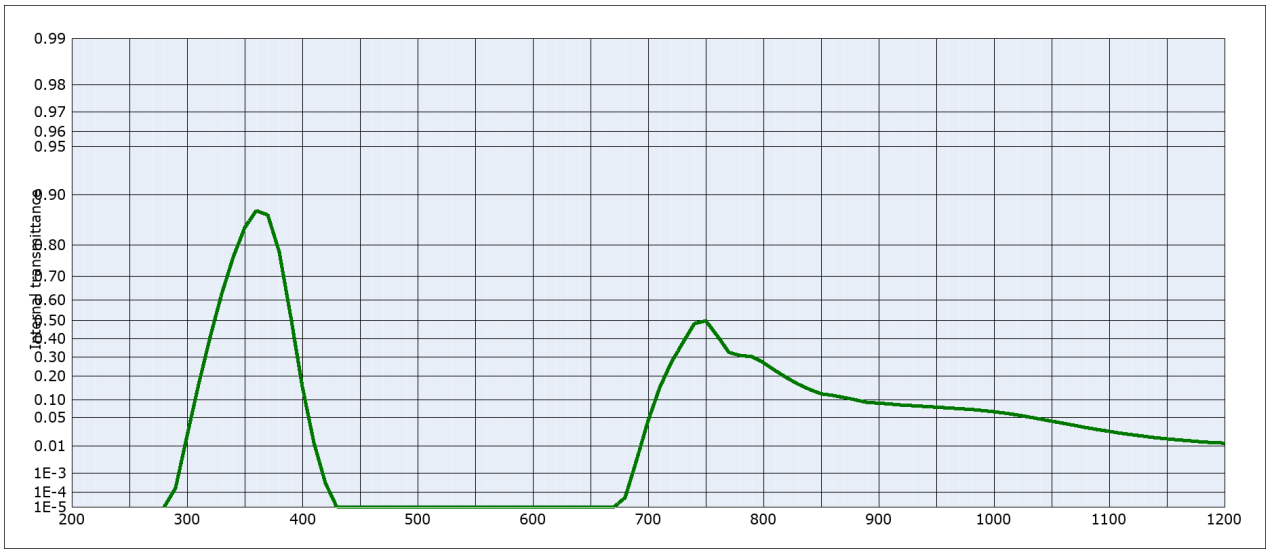
Notes
Ionically colored glass
Bandpass filter
UV
Transmission changes are possible
under the action of intense
ultraviolet radiation.
All data wihout tolerances are to be
understood to be reference values.
Guaranteed values are only those
values listed in the section
"Spectral values guaranteed".

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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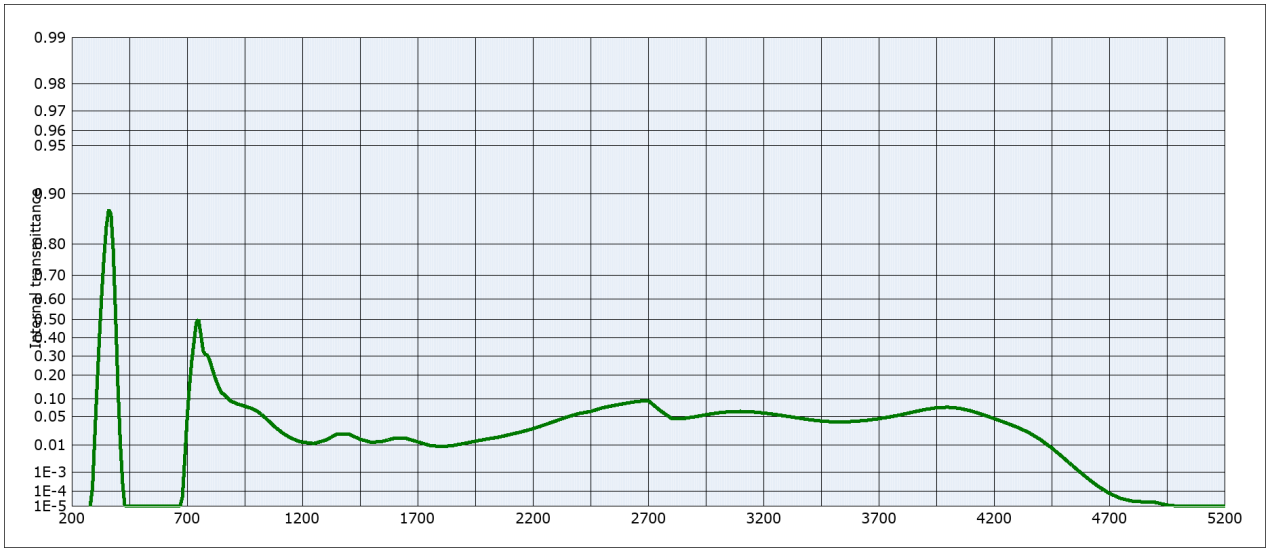

Internal transmittance τ_i at reference thickness d = 3 mm
The internal transmittance values, tabulated and graphically represented, are reference values only

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	$< 10^{-5}$	500	$< 10^{-5}$	800	0.269	1100	$2.5 \cdot 10^{-2}$	2200	$2.8 \cdot 10^{-2}$	3700	$4.5 \cdot 10^{-2}$
210	$< 10^{-5}$	510	$< 10^{-5}$	810	0.229	1110	$2.3 \cdot 10^{-2}$	2250	$3.4 \cdot 10^{-2}$	3750	$5.0 \cdot 10^{-2}$
220	$< 10^{-5}$	520	$< 10^{-5}$	820	0.193	1120	$2.1 \cdot 10^{-2}$	2300	$4.1 \cdot 10^{-2}$	3800	$5.5 \cdot 10^{-2}$
230	$< 10^{-5}$	530	$< 10^{-5}$	830	0.164	1130	$1.9 \cdot 10^{-2}$	2350	$4.9 \cdot 10^{-2}$	3850	$6.1 \cdot 10^{-2}$
240	$< 10^{-5}$	540	$< 10^{-5}$	840	0.141	1140	$1.7 \cdot 10^{-2}$	2400	$5.7 \cdot 10^{-2}$	3900	$6.8 \cdot 10^{-2}$
250	$< 10^{-5}$	550	$< 10^{-5}$	850	0.123	1150	$1.6 \cdot 10^{-2}$	2450	$6.3 \cdot 10^{-2}$	3950	$7.3 \cdot 10^{-2}$
260	$< 10^{-5}$	560	$< 10^{-5}$	860	0.117	1160	$1.5 \cdot 10^{-2}$	2500	$7.2 \cdot 10^{-2}$	4000	$7.4 \cdot 10^{-2}$
270	$< 10^{-5}$	570	$< 10^{-5}$	870	0.109	1170	$1.4 \cdot 10^{-2}$	2550	$7.9 \cdot 10^{-2}$	4050	$7.1 \cdot 10^{-2}$
280	$< 10^{-5}$	580	$< 10^{-5}$	880	0.101	1180	$1.3 \cdot 10^{-2}$	2600	$8.6 \cdot 10^{-2}$	4100	$6.4 \cdot 10^{-2}$
290	$1.8 \cdot 10^{-4}$	590	$< 10^{-5}$	890	$9.2 \cdot 10^{-2}$	1190	$1.3 \cdot 10^{-2}$	2650	$9.2 \cdot 10^{-2}$	4150	$5.5 \cdot 10^{-2}$
300	$2.0 \cdot 10^{-2}$	600	$< 10^{-5}$	900	$9.0 \cdot 10^{-2}$	1200	$1.2 \cdot 10^{-2}$	2700	$9.5 \cdot 10^{-2}$	4200	$4.6 \cdot 10^{-2}$
310	0.162	610	$< 10^{-5}$	910	$8.7 \cdot 10^{-2}$	1250	$1.1 \cdot 10^{-2}$	2750	$6.6 \cdot 10^{-2}$	4250	$3.8 \cdot 10^{-2}$
320	0.409	620	$< 10^{-5}$	920	$8.4 \cdot 10^{-2}$	1300	$1.4 \cdot 10^{-2}$	2800	$4.7 \cdot 10^{-2}$	4300	$3.0 \cdot 10^{-2}$
330	0.627	630	$< 10^{-5}$	930	$8.2 \cdot 10^{-2}$	1350	$2.0 \cdot 10^{-2}$	2850	$4.6 \cdot 10^{-2}$	4350	$2.2 \cdot 10^{-2}$
340	0.764	640	$< 10^{-5}$	940	$7.9 \cdot 10^{-2}$	1400	$2.1 \cdot 10^{-2}$	2900	$4.9 \cdot 10^{-2}$	4400	$1.5 \cdot 10^{-2}$
350	0.841	650	$< 10^{-5}$	950	$7.7 \cdot 10^{-2}$	1450	$1.5 \cdot 10^{-2}$	2950	$5.4 \cdot 10^{-2}$	4450	$8.3 \cdot 10^{-3}$
360	0.875	660	$< 10^{-5}$	960	$7.5 \cdot 10^{-2}$	1500	$1.2 \cdot 10^{-2}$	3000	$5.9 \cdot 10^{-2}$	4500	$3.9 \cdot 10^{-3}$
370	0.867	670	$< 10^{-5}$	970	$7.3 \cdot 10^{-2}$	1550	$1.3 \cdot 10^{-2}$	3050	$6.2 \cdot 10^{-2}$	4550	$1.6 \cdot 10^{-3}$
380	0.779	680	$4.7 \cdot 10^{-5}$	980	$7.1 \cdot 10^{-2}$	1600	$1.6 \cdot 10^{-2}$	3100	$6.3 \cdot 10^{-2}$	4600	$5.9 \cdot 10^{-4}$
390	0.515	690	$3.5 \cdot 10^{-3}$	990	$6.8 \cdot 10^{-2}$	1650	$1.6 \cdot 10^{-2}$	3150	$6.2 \cdot 10^{-2}$	4650	$2.1 \cdot 10^{-4}$
400	0.152	700	$4.4 \cdot 10^{-2}$	1000	$6.4 \cdot 10^{-2}$	1700	$1.3 \cdot 10^{-2}$	3200	$5.9 \cdot 10^{-2}$	4700	$7.7 \cdot 10^{-5}$
410	$1.3 \cdot 10^{-2}$	710	0.148	1010	$6.1 \cdot 10^{-2}$	1750	$1.0 \cdot 10^{-2}$	3250	$5.5 \cdot 10^{-2}$	4750	$3.6 \cdot 10^{-5}$
420	$3.3 \cdot 10^{-4}$	720	0.270	1020	$5.6 \cdot 10^{-2}$	1800	$9.1 \cdot 10^{-3}$	3300	$5.1 \cdot 10^{-2}$	4800	$2.4 \cdot 10^{-5}$
430	$< 10^{-5}$	730	0.377	1030	$5.2 \cdot 10^{-2}$	1850	$9.8 \cdot 10^{-3}$	3350	$4.7 \cdot 10^{-2}$	4850	$2.1 \cdot 10^{-5}$
440	$< 10^{-5}$	740	0.482	1040	$4.7 \cdot 10^{-2}$	1900	$1.1 \cdot 10^{-2}$	3400	$4.4 \cdot 10^{-2}$	4900	$1.9 \cdot 10^{-5}$
450	$< 10^{-5}$	750	0.497	1050	$4.3 \cdot 10^{-2}$	1950	$1.3 \cdot 10^{-2}$	3450	$4.1 \cdot 10^{-2}$	4950	$1.3 \cdot 10^{-5}$
460	$< 10^{-5}$	760	0.416	1060	$3.8 \cdot 10^{-2}$	2000	$1.5 \cdot 10^{-2}$	3500	$3.9 \cdot 10^{-2}$	5000	$< 10^{-5}$
470	$< 10^{-5}$	770	0.325	1070	$3.5 \cdot 10^{-2}$	2050	$1.7 \cdot 10^{-2}$	3550	$3.9 \cdot 10^{-2}$	5050	$< 10^{-5}$
480	$< 10^{-5}$	780	0.308	1080	$3.1 \cdot 10^{-2}$	2100	$2.0 \cdot 10^{-2}$	3600	$4.0 \cdot 10^{-2}$	5100	$< 10^{-5}$
490	$< 10^{-5}$	790	0.302	1090	$2.8 \cdot 10^{-2}$	2150	$2.3 \cdot 10^{-2}$	3650	$4.2 \cdot 10^{-2}$	5150	$< 10^{-5}$

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