

## NG1

Reflection factor	
$P_d$	0.92

Reference thickness	
d [mm]	1

Spectral values guaranteed	
$\tau_i$ (546 nm)	$< 1 \cdot 10^{-4}$

Refractive index n		
$\lambda$ [nm]	Element	n
587.6	He	1.52

Density	
$\rho$ [g/cm <sup>3</sup> ]	2.47

Bubble content	
Bubble class	2

Chemical resistance	
FR class	1
SR class	2.2
AR class	1.0

Transformation temperature	
$T_g$ [°C]	471

Thermal expansion	
$\alpha_{-30/+70^\circ\text{C}}$ [10 <sup>-6</sup> /K]	6.6
$\alpha_{20/300^\circ\text{C}}$ [10 <sup>-6</sup> /K]	7.2
$\alpha_{20/200^\circ\text{C}}$ [10 <sup>-6</sup> /K]	

Temperature coefficient	
$T_k$ [nm/°C]	

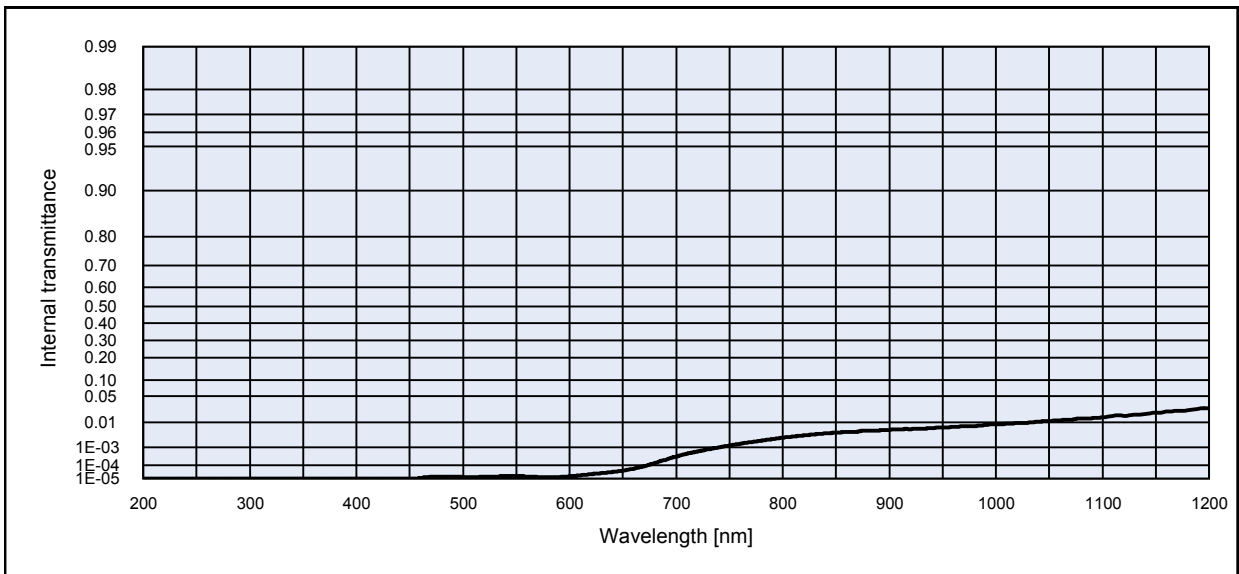
### Notes

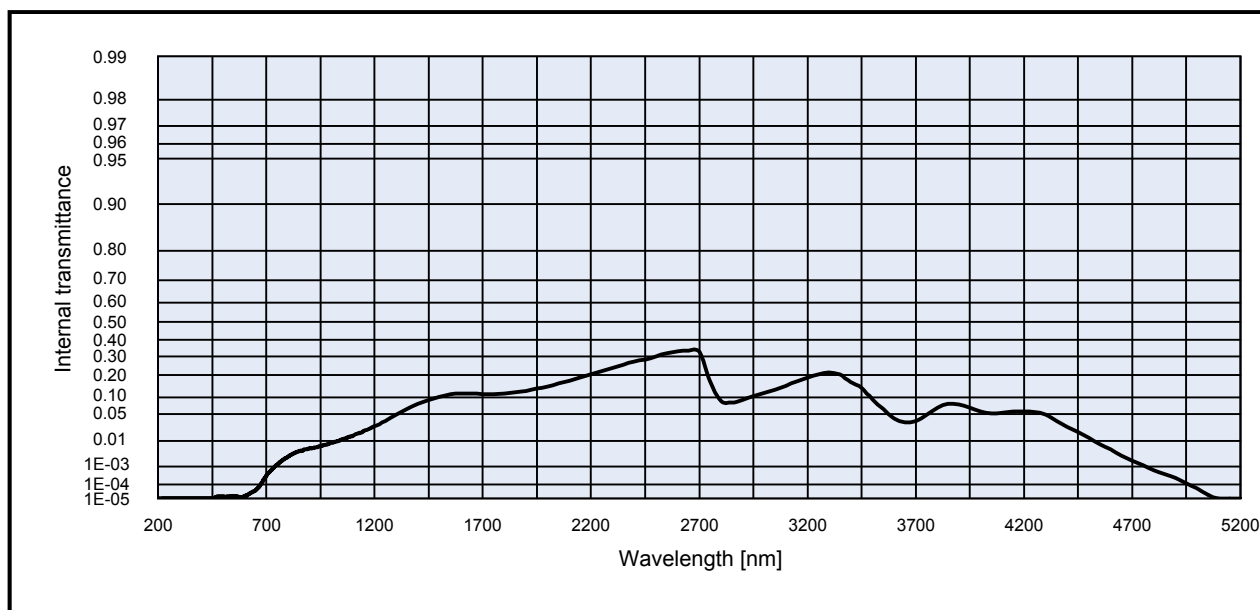
Ionically colored glass

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 )			Illuminant Planck T = 3200 K			Illuminant D65 ( T <sub>c</sub> = 6504 K )					
d [mm]	1	2	3	d [mm]	1	2	3	d [mm]	1	2	3
x				x				x			
y				y				y			
Y				Y				Y			
$\lambda_d$ [nm]				$\lambda_d$ [nm]				$\lambda_d$ [nm]			
$P_e$				$P_e$				$P_e$			





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

$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$
200	< 1.0E-05	500	1.3E-05	800	2.7E-03	1100	1.4E-02	2200	2.0E-01	3700	3.6E-02
210	< 1.0E-05	510	1.3E-05	810	3.0E-03	1110	1.6E-02	2250	2.2E-01	3750	4.8E-02
220	< 1.0E-05	520	1.4E-05	820	3.4E-03	1120	1.6E-02	2300	2.4E-01	3800	6.6E-02
230	< 1.0E-05	530	1.5E-05	830	3.7E-03	1130	1.7E-02	2350	2.6E-01	3850	7.7E-02
240	< 1.0E-05	540	1.6E-05	840	4.1E-03	1140	1.8E-02	2400	2.7E-01	3900	7.6E-02
250	< 1.0E-05	550	1.6E-05	850	4.3E-03	1150	2.0E-02	2450	2.9E-01	3950	6.7E-02
260	< 1.0E-05	560	1.5E-05	860	4.6E-03	1160	2.1E-02	2500	3.0E-01	4000	5.6E-02
270	< 1.0E-05	570	1.3E-05	870	4.8E-03	1170	2.2E-02	2550	3.2E-01	4050	5.1E-02
280	< 1.0E-05	580	1.3E-05	880	5.2E-03	1180	2.3E-02	2600	3.3E-01	4100	5.3E-02
290	< 1.0E-05	590	1.3E-05	890	5.2E-03	1190	2.4E-02	2650	3.4E-01	4150	5.6E-02
300	< 1.0E-05	600	1.5E-05	900	5.5E-03	1200	2.6E-02	2700	3.3E-01	4200	5.7E-02
310	< 1.0E-05	610	1.8E-05	910	5.7E-03	1250	3.5E-02	2750	1.7E-01	4250	5.5E-02
320	< 1.0E-05	620	2.2E-05	920	5.9E-03	1300	4.8E-02	2800	8.9E-02	4300	4.8E-02
330	< 1.0E-05	630	2.7E-05	930	6.0E-03	1350	6.2E-02	2850	8.2E-02	4350	3.5E-02
340	< 1.0E-05	640	3.3E-05	940	6.5E-03	1400	7.8E-02	2900	9.2E-02	4400	2.6E-02
350	< 1.0E-05	650	4.1E-05	950	6.7E-03	1450	9.2E-02	2950	1.0E-01	4450	1.9E-02
360	< 1.0E-05	660	5.6E-05	960	7.1E-03	1500	1.0E-01	3000	1.2E-01	4500	1.3E-02
370	< 1.0E-05	670	8.3E-05	970	7.6E-03	1550	1.1E-01	3050	1.3E-01	4550	7.8E-03
380	< 1.0E-05	680	1.3E-04	980	7.6E-03	1600	1.2E-01	3100	1.5E-01	4600	5.1E-03
390	< 1.0E-05	690	2.1E-04	990	8.2E-03	1650	1.1E-01	3150	1.7E-01	4650	3.0E-03
400	< 1.0E-05	700	3.2E-04	1000	8.6E-03	1700	1.1E-01	3200	1.9E-01	4700	1.8E-03
410	< 1.0E-05	710	4.6E-04	1010	9.1E-03	1750	1.1E-01	3250	2.0E-01	4750	1.1E-03
420	< 1.0E-05	720	6.2E-04	1020	9.6E-03	1800	1.2E-01	3300	2.1E-01	4800	6.3E-04
430	< 1.0E-05	730	8.0E-04	1030	9.8E-03	1850	1.2E-01	3350	2.0E-01	4850	4.2E-04
440	< 1.0E-05	740	9.9E-04	1040	1.1E-02	1900	1.3E-01	3400	1.7E-01	4900	2.5E-04
450	< 1.0E-05	750	1.2E-03	1050	1.1E-02	1950	1.3E-01	3450	1.4E-01	4950	1.2E-04
460	1.1E-05	760	1.5E-03	1060	1.2E-02	2000	1.5E-01	3500	9.4E-02	5000	5.5E-05
470	1.4E-05	770	1.7E-03	1070	1.2E-02	2050	1.6E-01	3550	6.3E-02	5050	2.0E-05
480	1.4E-05	780	2.0E-03	1080	1.3E-02	2100	1.7E-01	3600	4.0E-02	5100	< 1.0E-05
490	1.4E-05	790	2.4E-03	1090	1.4E-02	2150	1.9E-01	3650	3.3E-02	5150	< 1.0E-05