

Data Sheet



GG395

Reflection factor	
P _d	0.918

Reference thickness	
d [mm]	3

Spectral values guaranteed	
λ _c (τ _i = 0.5) [nm]	= 395 ± 6
λ _s (τ _{i,U} = 10 ⁻⁵) [nm]	= 340
λ _p (τ _{i,L} = 0.92) [nm]	= 480

Refractive Index n	
n _e (546.1 nm) = 1.520	
n _d (587.6 nm) = 1.520	
n _s (852.1 nm) = 1.520	
n _i (1014.0 nm) = 1.510	

Density	
ρ [g/cm ³]	2.55

Bubble content	
Bubble class	3

Chemical Resistance	
FR class	0
SR class	1.0
AR class	1.0

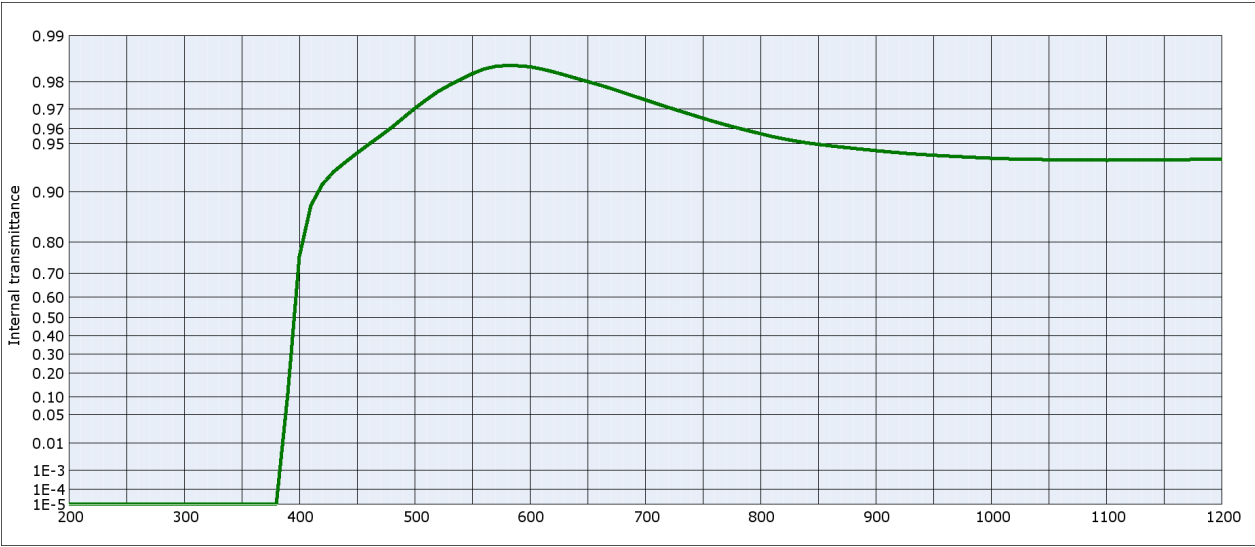
Transformation temperature	
T _g [°C]	538

Thermal expansion	
α _{30/+70°C} [10 ⁻⁶ /K]	7.8
α _{20/300°C} [10 ⁻⁶ /K]	9.0
α _{20/200°C} [10 ⁻⁶ /K]	

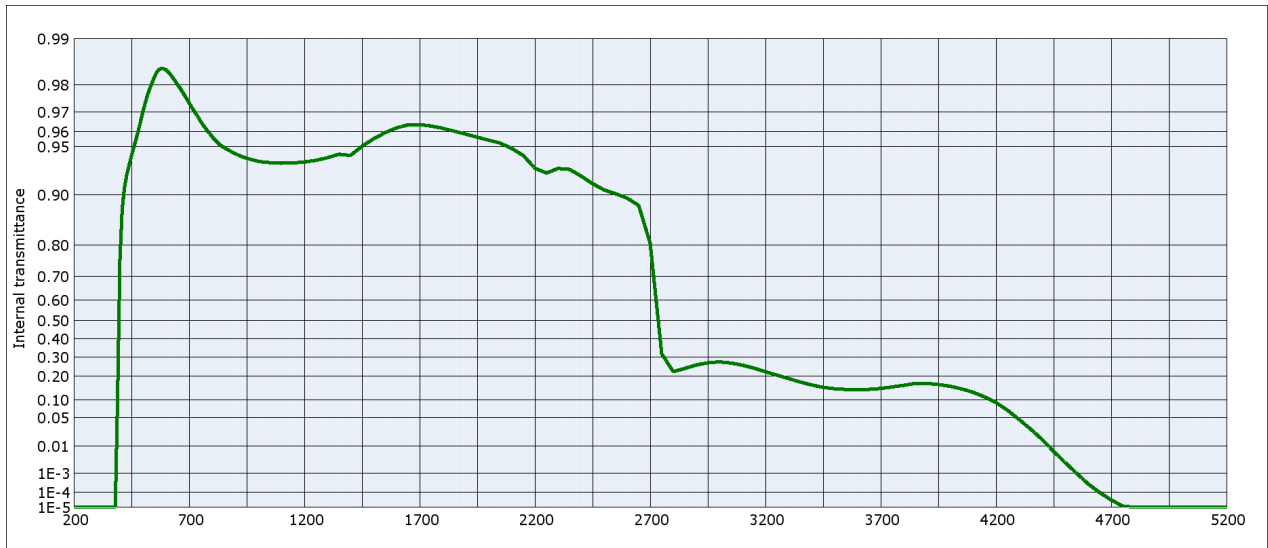
Temperature coefficient	
T _K [nm/°C]	0.07

Notes
Colloidally colored glass
Longpass 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 _c = 6504 K)				
d [mm]	1	2	3	d [mm]	1	2	3	d [mm]	1	2	3	
x	0.448	0.449	0.450	x	0.424	0.425	0.426	x	0.314	0.315	0.316	
y	0.408	0.409	0.410	y	0.400	0.401	0.402	y	0.331	0.332	0.334	
Y	91	91	90	Y	91	91	90	Y	91	90	90	
λ _d [nm]	581	581	581	λ _d [nm]	579	579	579	λ _d [nm]	570	570	571	
P _e	0.01	0.02	0.03	P _e	0.01	0.02	0.03	P _e	0.01	0.02	0.02	



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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	0.970	800	0.957	1100	0.937	2200	0.932	3700	0.145
210	$< 10^{-5}$	510	0.974	810	0.955	1110	0.937	2250	0.927	3750	0.151
220	$< 10^{-5}$	520	0.977	820	0.954	1120	0.937	2300	0.931	3800	0.158
230	$< 10^{-5}$	530	0.979	830	0.952	1130	0.937	2350	0.931	3850	0.167
240	$< 10^{-5}$	540	0.981	840	0.951	1140	0.937	2400	0.924	3900	0.167
250	$< 10^{-5}$	550	0.982	850	0.950	1150	0.937	2450	0.915	3950	0.162
260	$< 10^{-5}$	560	0.983	860	0.949	1160	0.937	2500	0.907	4000	0.154
270	$< 10^{-5}$	570	0.984	870	0.948	1170	0.937	2550	0.901	4050	0.143
280	$< 10^{-5}$	580	0.984	880	0.947	1180	0.937	2600	0.895	4100	0.130
290	$< 10^{-5}$	590	0.984	890	0.946	1190	0.937	2650	0.884	4150	0.112
300	$< 10^{-5}$	600	0.984	900	0.945	1200	0.938	2700	0.804	4200	$9.2 \cdot 10^{-2}$
310	$< 10^{-5}$	610	0.983	910	0.944	1250	0.939	2750	0.318	4250	$6.8 \cdot 10^{-2}$
320	$< 10^{-5}$	620	0.983	920	0.943	1300	0.941	2800	0.223	4300	$4.6 \cdot 10^{-2}$
330	$< 10^{-5}$	630	0.982	930	0.942	1350	0.944	2850	0.239	4350	$2.9 \cdot 10^{-2}$
340	$< 10^{-5}$	640	0.981	940	0.942	1400	0.943	2900	0.257	4400	$1.6 \cdot 10^{-2}$
350	$< 10^{-5}$	650	0.980	950	0.941	1450	0.950	2950	0.269	4450	$6.9 \cdot 10^{-3}$
360	$< 10^{-5}$	660	0.979	960	0.940	1500	0.955	3000	0.274	4500	$2.8 \cdot 10^{-3}$
370	$< 10^{-5}$	670	0.978	970	0.940	1550	0.959	3050	0.268	4550	$9.9 \cdot 10^{-4}$
380	$< 10^{-5}$	680	0.977	980	0.939	1600	0.962	3100	0.256	4600	$3.0 \cdot 10^{-4}$
390	0.113	690	0.975	990	0.939	1650	0.964	3150	0.241	4650	$9.9 \cdot 10^{-5}$
400	0.757	700	0.974	1000	0.938	1700	0.964	3200	0.222	4700	$3.3 \cdot 10^{-5}$
410	0.878	710	0.972	1010	0.938	1750	0.963	3250	0.205	4750	$1.2 \cdot 10^{-5}$
420	0.910	720	0.971	1020	0.938	1800	0.962	3300	0.189	4800	$< 10^{-5}$
430	0.925	730	0.969	1030	0.937	1850	0.960	3350	0.173	4850	$< 10^{-5}$
440	0.935	740	0.967	1040	0.937	1900	0.959	3400	0.160	4900	$< 10^{-5}$
450	0.943	750	0.966	1050	0.937	1950	0.957	3450	0.149	4950	$< 10^{-5}$
460	0.950	760	0.964	1060	0.937	2000	0.955	3500	0.144	5000	$< 10^{-5}$
470	0.955	770	0.962	1070	0.937	2050	0.953	3550	0.141	5050	$< 10^{-5}$
480	0.961	780	0.960	1080	0.937	2100	0.949	3600	0.140	5100	$< 10^{-5}$
490	0.966	790	0.959	1090	0.937	2150	0.943	3650	0.141	5150	$< 10^{-5}$