

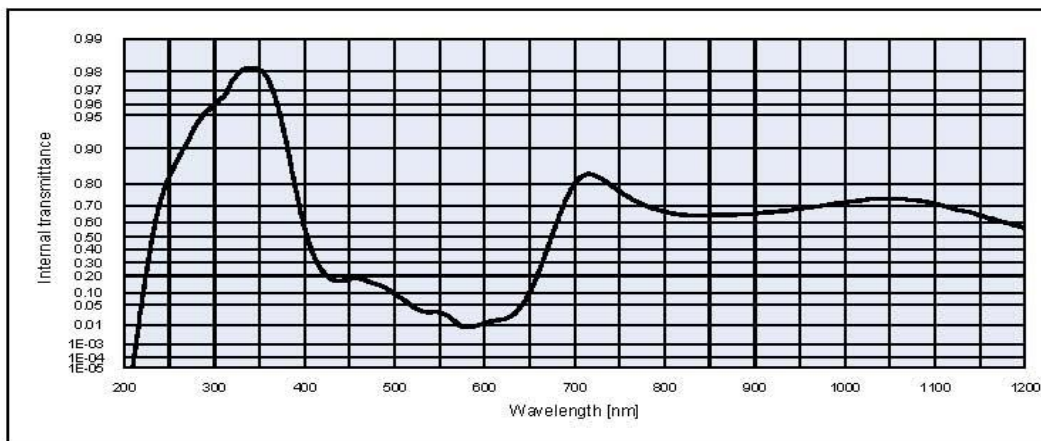
Data Sheet



UG5		Density		Notes																									
Reflection factor		ρ [g/cm ³]		Ionically colored glass																									
P_d		2.85		Band pass filter																									
Reference thickness		Bubble content																											
d [mm]		Bubble class																											
1		2																											
Spectral values guaranteed		Chemical resistance																											
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		Transformation temperature																											
		T _g [°C]		462																									
		Thermal expansion																											
		$\alpha_{300-700^\circ\text{C}}$ [10 ⁻⁶ /K]		8.1																									
		$\alpha_{20-300^\circ\text{C}}$ [10 ⁻⁶ /K]		9.4																									
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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 _s = 6504 K)		
	d [mm]	1	2		3	d [mm]	1		2	3	d [mm]
x				x				x			
y				y				y			
Y				Y				Y			
λ_d [nm]				λ_d [nm]				λ_d [nm]			
P _s				P _s				P _s			





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	9.5E-02	800	6.6E-01	1100	7.1E-01	2200	6.0E-01	3700	3.6E-04
210	2.2E-05	510	7.0E-02	810	6.6E-01	1110	7.0E-01	2250	6.0E-01	3750	4.0E-04
220	6.9E-02	520	4.6E-02	820	6.5E-01	1120	6.8E-01	2300	6.0E-01	3800	4.1E-04
230	4.5E-01	530	3.3E-02	830	6.4E-01	1130	6.7E-01	2350	6.0E-01	3850	3.9E-04
240	7.2E-01	540	3.0E-02	840	6.4E-01	1140	6.6E-01	2400	6.0E-01	3900	3.5E-04
250	8.3E-01	550	3.0E-02	850	6.4E-01	1150	6.4E-01	2450	6.0E-01	3950	2.8E-04
260	8.8E-01	560	2.2E-02	860	6.5E-01	1160	6.2E-01	2500	5.8E-01	4000	2.0E-04
270	9.1E-01	570	1.1E-02	870	6.5E-01	1170	6.1E-01	2550	5.2E-01	4050	1.3E-04
280	9.4E-01	580	7.8E-03	880	6.5E-01	1180	5.9E-01	2600	5.0E-01	4100	8.2E-05
290	9.5E-01	590	9.0E-03	890	6.5E-01	1190	5.8E-01	2650	4.8E-01	4150	5.9E-05
300	9.6E-01	600	1.2E-02	900	6.5E-01	1200	5.6E-01	2700	4.5E-01	4200	5.1E-05
310	9.7E-01	610	1.5E-02	910	6.6E-01	1250	4.9E-01	2750	3.5E-01	4250	5.4E-05
320	9.8E-01	620	1.7E-02	920	6.6E-01	1300	4.4E-01	2800	1.2E-01	4300	7.0E-05
330	9.8E-01	630	2.3E-02	930	6.7E-01	1350	4.4E-01	2850	3.6E-02	4350	1.0E-04
340	9.8E-01	640	4.4E-02	940	6.7E-01	1400	4.4E-01	2900	1.4E-02	4400	1.4E-04
350	9.8E-01	650	1.0E-01	950	6.8E-01	1450	4.4E-01	2950	7.2E-03	4450	1.7E-04
360	9.8E-01	660	2.3E-01	960	6.9E-01	1500	4.3E-01	3000	3.8E-03	4500	2.1E-04
370	9.6E-01	670	4.1E-01	970	7.0E-01	1550	4.4E-01	3050	2.0E-03	4550	2.6E-04
380	9.1E-01	680	6.0E-01	980	7.0E-01	1600	4.6E-01	3100	1.2E-03	4600	3.0E-04
390	7.9E-01	690	7.3E-01	990	7.1E-01	1650	4.8E-01	3150	7.4E-04	4650	3.5E-04
400	5.7E-01	700	8.0E-01	1000	7.2E-01	1700	4.9E-01	3200	4.8E-04	4700	4.0E-04
410	3.6E-01	710	8.3E-01	1010	7.2E-01	1750	5.0E-01	3250	3.2E-04	4750	4.3E-04
420	2.4E-01	720	8.3E-01	1020	7.3E-01	1800	5.0E-01	3300	2.3E-04	4800	4.7E-04
430	1.8E-01	730	8.2E-01	1030	7.3E-01	1850	5.1E-01	3350	1.9E-04	4850	4.9E-04
440	1.7E-01	740	8.0E-01	1040	7.3E-01	1900	5.3E-01	3400	1.8E-04	4900	5.0E-04
450	1.8E-01	750	7.7E-01	1050	7.3E-01	1950	5.5E-01	3450	1.8E-04	4950	5.0E-04
460	1.8E-01	760	7.4E-01	1060	7.3E-01	2000	5.7E-01	3500	1.9E-04	5000	5.0E-04
470	1.7E-01	770	7.2E-01	1070	7.3E-01	2050	5.9E-01	3550	2.1E-04	5050	4.6E-04
480	1.5E-01	780	7.0E-01	1080	7.3E-01	2100	6.0E-01	3600	2.5E-04	5100	4.0E-04
490	1.3E-01	790	6.8E-01	1090	7.2E-01	2150	6.1E-01	3650	3.0E-04	5150	2.7E-04