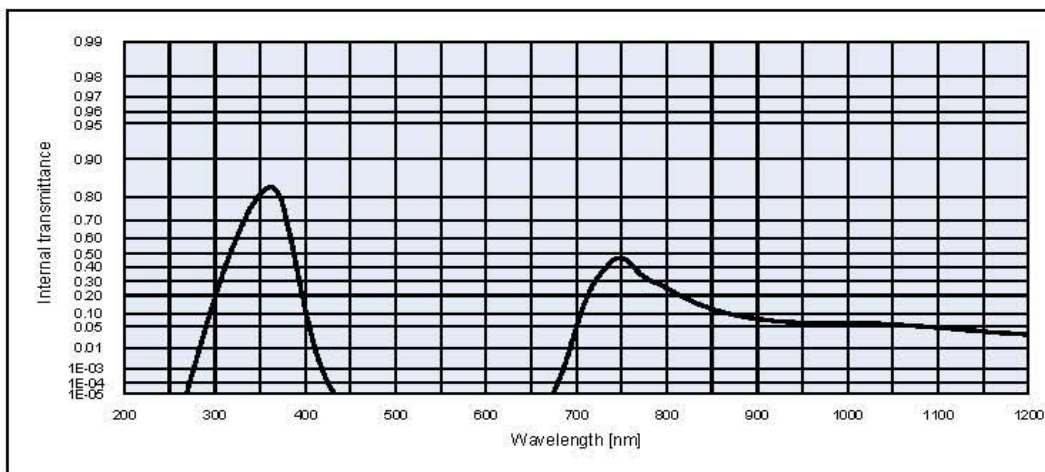


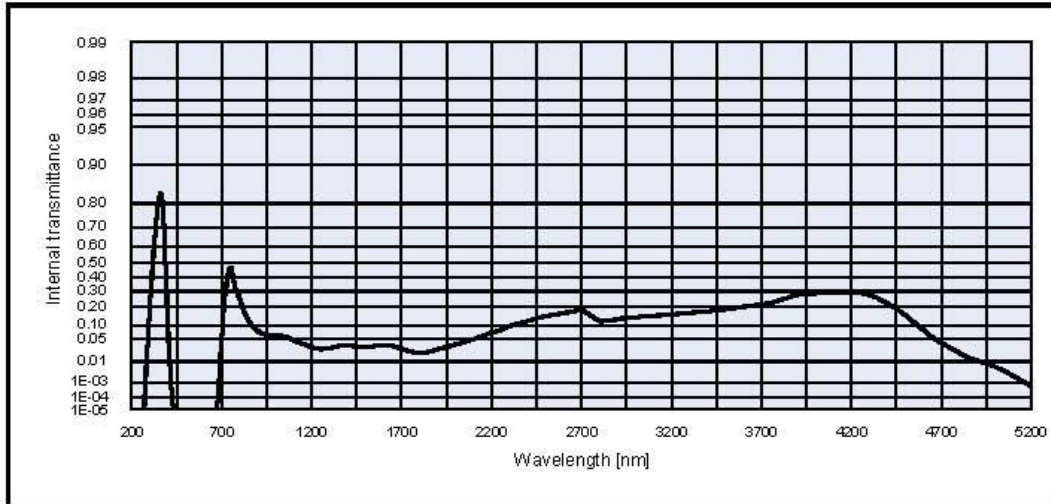
Data Sheet



UG1		Density		Notes	
		ρ [g/cm ³]	2.77		
Reflection factor		Bubble content		Ionically colored glass Band pass filter v Transmission changes are possible under the action of intense ultraviolet radiation 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".	
P_d	0.91	Bubble class	1		
Reference thickness		Chemical resistance			
d [mm]	1	FR class	0		
Spectral values guaranteed		SR class	1.0		
τ_i (365 nm)	\geq 0.80	AR class	1.0		
τ_i (405 nm)	\leq 0.10	Transformation temperature			
τ_i (694 nm)	\leq 0.06	T_g [°C]	603		
τ_i (750 nm)	\leq 0.53	Thermal expansion			
		$\alpha_{300-700^\circ\text{C}}$ [10 ⁻⁶ /K]	7.9		
		$\alpha_{20-200^\circ\text{C}}$ [10 ⁻⁶ /K]	8.9		
		$\alpha_{20-25^\circ\text{C}}$ [10 ⁻⁶ /K]			
Refractive index n		Temperature coefficient			
λ [nm]	Element	n	T_k [nm/°C]		
365	Hg	1.57			
587.6	He	1.54			

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]	1	2	3
x				x				x			
y				y				y			
Y				Y				Y			
λ_d [nm]				λ_d [nm]				λ_d [nm]			
P_v				P_v				P_v			





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	< 1.0E-05	800	2.5E-01	1100	4.7E-02	2200	7.0E-02	3700	2.1E-01
210	< 1.0E-05	510	< 1.0E-05	810	2.2E-01	1110	4.5E-02	2250	8.1E-02	3750	2.2E-01
220	< 1.0E-05	520	< 1.0E-05	820	1.9E-01	1120	4.3E-02	2300	9.5E-02	3800	2.4E-01
230	< 1.0E-05	530	< 1.0E-05	830	1.6E-01	1130	4.1E-02	2350	1.1E-01	3850	2.6E-01
240	< 1.0E-05	540	< 1.0E-05	840	1.4E-01	1140	3.9E-02	2400	1.2E-01	3900	2.8E-01
250	< 1.0E-05	550	< 1.0E-05	850	1.2E-01	1150	3.7E-02	2450	1.3E-01	3950	2.9E-01
260	< 1.0E-05	560	< 1.0E-05	860	1.1E-01	1160	3.6E-02	2500	1.4E-01	4000	2.9E-01
270	2.5E-05	570	< 1.0E-05	870	9.8E-02	1170	3.4E-02	2550	1.5E-01	4050	2.9E-01
280	3.7E-03	580	< 1.0E-05	880	8.9E-02	1180	3.2E-02	2600	1.6E-01	4100	2.9E-01
290	4.8E-02	590	< 1.0E-05	890	8.3E-02	1190	3.1E-02	2650	1.7E-01	4150	2.9E-01
300	1.8E-01	600	< 1.0E-05	900	7.8E-02	1200	3.0E-02	2700	1.8E-01	4200	2.9E-01
310	3.7E-01	610	< 1.0E-05	910	7.3E-02	1250	2.6E-02	2750	1.5E-01	4250	2.9E-01
320	5.4E-01	620	< 1.0E-05	920	6.9E-02	1300	2.9E-02	2800	1.2E-01	4300	2.8E-01
330	6.7E-01	630	< 1.0E-05	930	6.7E-02	1350	3.2E-02	2850	1.2E-01	4350	2.5E-01
340	7.6E-01	640	< 1.0E-05	940	6.5E-02	1400	3.3E-02	2900	1.3E-01	4400	2.2E-01
350	8.1E-01	650	< 1.0E-05	950	6.3E-02	1450	3.1E-02	2950	1.4E-01	4450	1.9E-01
360	8.3E-01	660	< 1.0E-05	960	6.2E-02	1500	3.0E-02	3000	1.4E-01	4500	1.5E-01
370	8.1E-01	670	< 1.0E-05	970	6.1E-02	1550	3.2E-02	3050	1.4E-01	4550	1.1E-01
380	6.9E-01	680	1.2E-04	980	6.1E-02	1600	3.4E-02	3100	1.5E-01	4600	8.0E-02
390	4.2E-01	690	4.0E-03	990	6.1E-02	1650	3.2E-02	3150	1.5E-01	4650	5.5E-02
400	1.2E-01	700	4.7E-02	1000	6.1E-02	1700	2.8E-02	3200	1.5E-01	4700	4.0E-02
410	1.3E-02	710	1.6E-01	1010	6.1E-02	1750	2.3E-02	3250	1.6E-01	4750	2.8E-02
420	6.1E-04	720	2.9E-01	1020	6.0E-02	1800	2.0E-02	3300	1.6E-01	4800	2.0E-02
430	2.3E-05	730	3.8E-01	1030	6.0E-02	1850	2.2E-02	3350	1.7E-01	4850	1.4E-02
440	< 1.0E-05	740	4.5E-01	1040	5.9E-02	1900	2.6E-02	3400	1.7E-01	4900	1.1E-02
450	< 1.0E-05	750	4.7E-01	1050	5.7E-02	1950	3.0E-02	3450	1.8E-01	4950	8.4E-03
460	< 1.0E-05	760	4.3E-01	1060	5.6E-02	2000	3.6E-02	3500	1.8E-01	5000	6.3E-03
470	< 1.0E-05	770	3.6E-01	1070	5.4E-02	2050	4.3E-02	3550	1.9E-01	5050	4.1E-03
480	< 1.0E-05	780	3.1E-01	1080	5.1E-02	2100	5.0E-02	3600	2.0E-01	5100	2.3E-03
490	< 1.0E-05	790	2.8E-01	1090	4.9E-02	2150	5.9E-02	3650	2.1E-01	5150	1.2E-03

While every attempt has been made to verify the source of the information, no responsibility is accepted for accuracy of data.