

Data Sheet

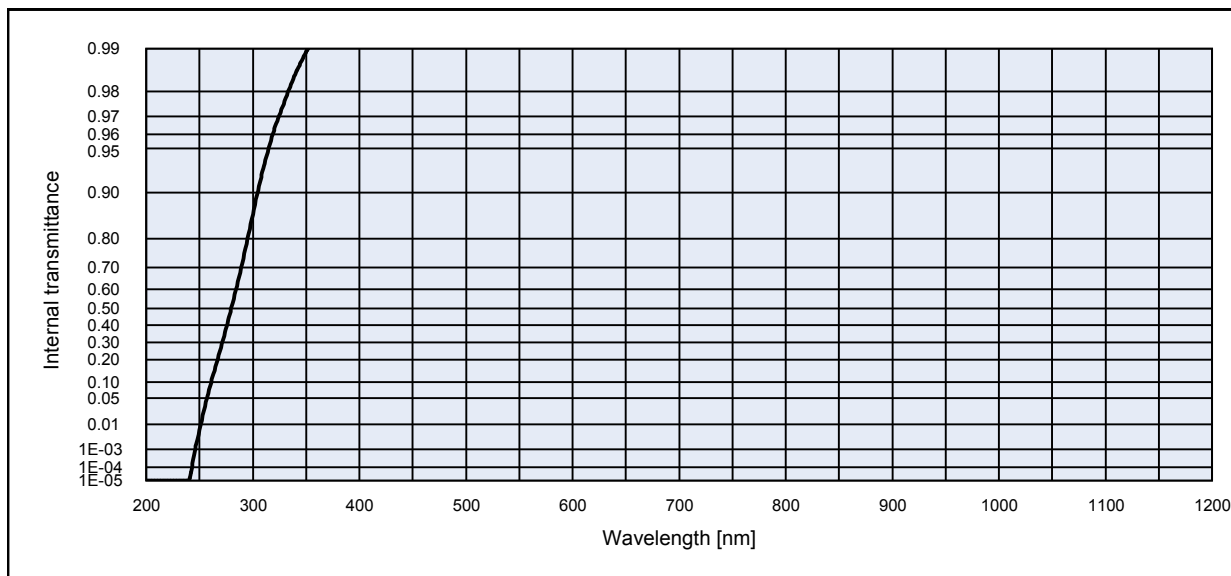


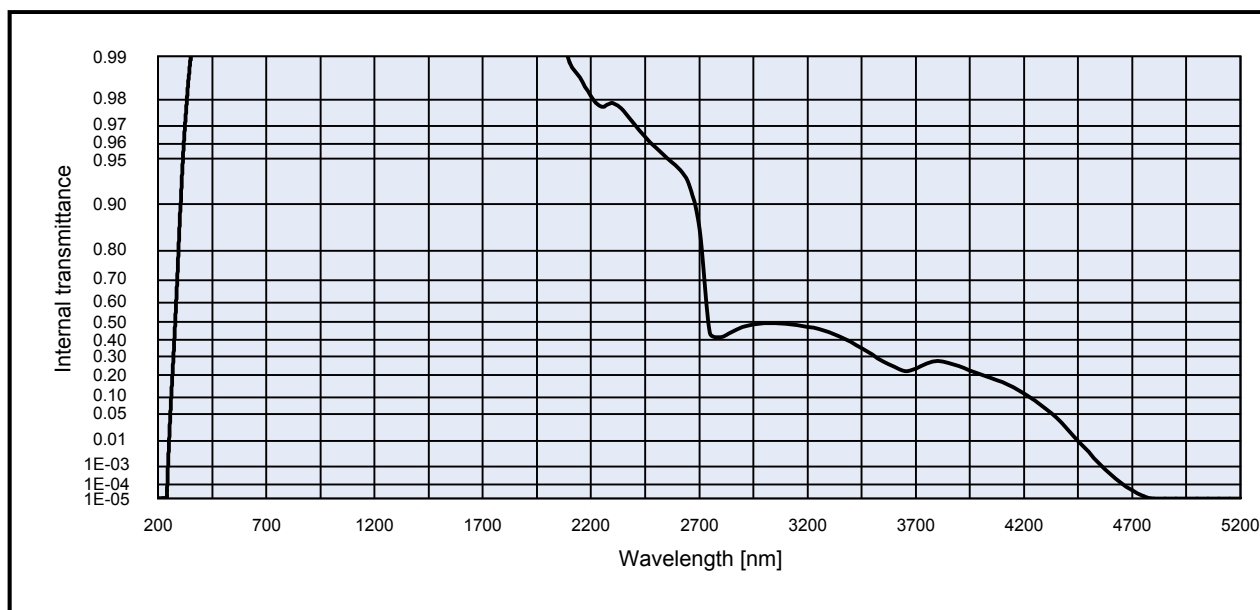
N-WG280

Density			Notes		
ρ [g/cm ³]			2.51		
Reflection factor			Base glass		
P_d			0.92		
Bubble content			Long pass filter		
Reference thickness					
d [mm]			2		
Chemical resistance					
Spectral values guaranteed					
λ_c ($\tau_i = 0.50$) [nm]			= 280 ± 6		
λ_s ($\tau_{is} = 1 \cdot 10^{-5}$) [nm]			= 230		
λ_p ($\tau_{ip} = 0.99$) [nm]			= 380		
Transformation temperature					
T _g [°C]			558		
Thermal expansion					
$\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]			7.1		
$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]			8.4		
$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]					
Temperature coefficient					
T _k [nm/°C]			0.06		
Refractive index n			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".		
λ [nm]	Element	n			
296.7	Hg	1.55			
587.6	He	1.52			
1014	Hg	1.51			

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
x													
y													
Y													
λ_d [nm]													
P _e													





Internal transmittance τ_i at reference thickness d [mm] = 2
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+00	800	1.0E+00	1100	1.0E+00	2200	9.8E-01	3700	2.3E-01
210	< 1.0E-05	510	1.0E+00	810	1.0E+00	1110	1.0E+00	2250	9.8E-01	3750	2.6E-01
220	< 1.0E-05	520	1.0E+00	820	1.0E+00	1120	1.0E+00	2300	9.8E-01	3800	2.7E-01
230	< 1.0E-05	530	1.0E+00	830	1.0E+00	1130	1.0E+00	2350	9.8E-01	3850	2.7E-01
240	< 1.0E-05	540	1.0E+00	840	1.0E+00	1140	1.0E+00	2400	9.7E-01	3900	2.5E-01
250	6.6E-03	550	1.0E+00	850	1.0E+00	1150	1.0E+00	2450	9.6E-01	3950	2.2E-01
260	8.6E-02	560	1.0E+00	860	1.0E+00	1160	1.0E+00	2500	9.6E-01	4000	2.0E-01
270	2.7E-01	570	1.0E+00	870	1.0E+00	1170	1.0E+00	2550	9.5E-01	4050	1.8E-01
280	5.1E-01	580	1.0E+00	880	1.0E+00	1180	1.0E+00	2600	9.4E-01	4100	1.6E-01
290	7.2E-01	590	1.0E+00	890	1.0E+00	1190	1.0E+00	2650	9.3E-01	4150	1.4E-01
300	8.6E-01	600	1.0E+00	900	1.0E+00	1200	1.0E+00	2700	8.5E-01	4200	1.2E-01
310	9.3E-01	610	1.0E+00	910	1.0E+00	1250	1.0E+00	2750	4.4E-01	4250	9.0E-02
320	9.6E-01	620	1.0E+00	920	1.0E+00	1300	1.0E+00	2800	4.1E-01	4300	6.4E-02
330	9.8E-01	630	1.0E+00	930	1.0E+00	1350	1.0E+00	2850	4.4E-01	4350	4.1E-02
340	9.8E-01	640	1.0E+00	940	1.0E+00	1400	1.0E+00	2900	4.7E-01	4400	2.2E-02
350	9.9E-01	650	1.0E+00	950	1.0E+00	1450	1.0E+00	2950	4.9E-01	4450	1.0E-02
360	9.9E-01	660	1.0E+00	960	1.0E+00	1500	1.0E+00	3000	4.9E-01	4500	4.3E-03
370	9.9E-01	670	1.0E+00	970	1.0E+00	1550	1.0E+00	3050	4.9E-01	4550	1.4E-03
380	9.9E-01	680	1.0E+00	980	1.0E+00	1600	1.0E+00	3100	4.9E-01	4600	4.1E-04
390	9.9E-01	690	1.0E+00	990	1.0E+00	1650	1.0E+00	3150	4.8E-01	4650	1.2E-04
400	9.9E-01	700	1.0E+00	1000	1.0E+00	1700	1.0E+00	3200	4.7E-01	4700	4.2E-05
410	1.0E+00	710	1.0E+00	1010	1.0E+00	1750	1.0E+00	3250	4.6E-01	4750	1.6E-05
420	1.0E+00	720	1.0E+00	1020	1.0E+00	1800	1.0E+00	3300	4.4E-01	4800	< 1.0E-05
430	1.0E+00	730	1.0E+00	1030	1.0E+00	1850	1.0E+00	3350	4.2E-01	4850	< 1.0E-05
440	1.0E+00	740	1.0E+00	1040	1.0E+00	1900	1.0E+00	3400	3.9E-01	4900	< 1.0E-05
450	1.0E+00	750	1.0E+00	1050	1.0E+00	1950	1.0E+00	3450	3.5E-01	4950	< 1.0E-05
460	1.0E+00	760	1.0E+00	1060	1.0E+00	2000	1.0E+00	3500	3.1E-01	5000	< 1.0E-05
470	1.0E+00	770	1.0E+00	1070	1.0E+00	2050	9.9E-01	3550	2.7E-01	5050	< 1.0E-05
480	1.0E+00	780	1.0E+00	1080	1.0E+00	2100	9.9E-01	3600	2.4E-01	5100	< 1.0E-05
490	1.0E+00	790	1.0E+00	1090	1.0E+00	2150	9.9E-01	3650	2.2E-01	5150	< 1.0E-05