

Data Sheet



N-WG280

Density	
ρ [g/cm ³]	2.51

Notes
Base glass
Longpass filter

Reflection factor	
P_d	0.918

Bubble content	
Bubble class	1

Reference thickness	
d [mm]	2

Chemical Resistance	
FR class	0
SR class	1.0
AR class	2.0

Spectral values guaranteed	
λ_c ($\tau_i = 0.5$) [nm]	= 280 ± 6
λ_s ($\tau_{i,U} = 10^{-5}$) [nm]	= 230
λ_p ($\tau_{i,L} = 0.99$) [nm]	= 380

Transformation temperature	
T _g [°C]	558

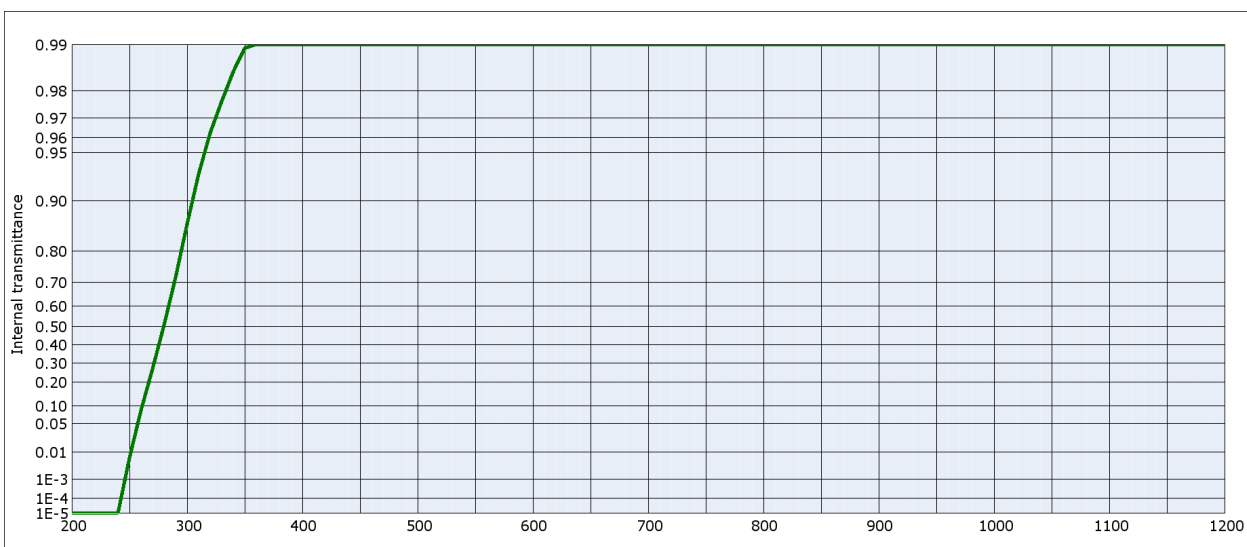
Thermal expansion	
$\alpha_{30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	7.1
$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	8.4
$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]	

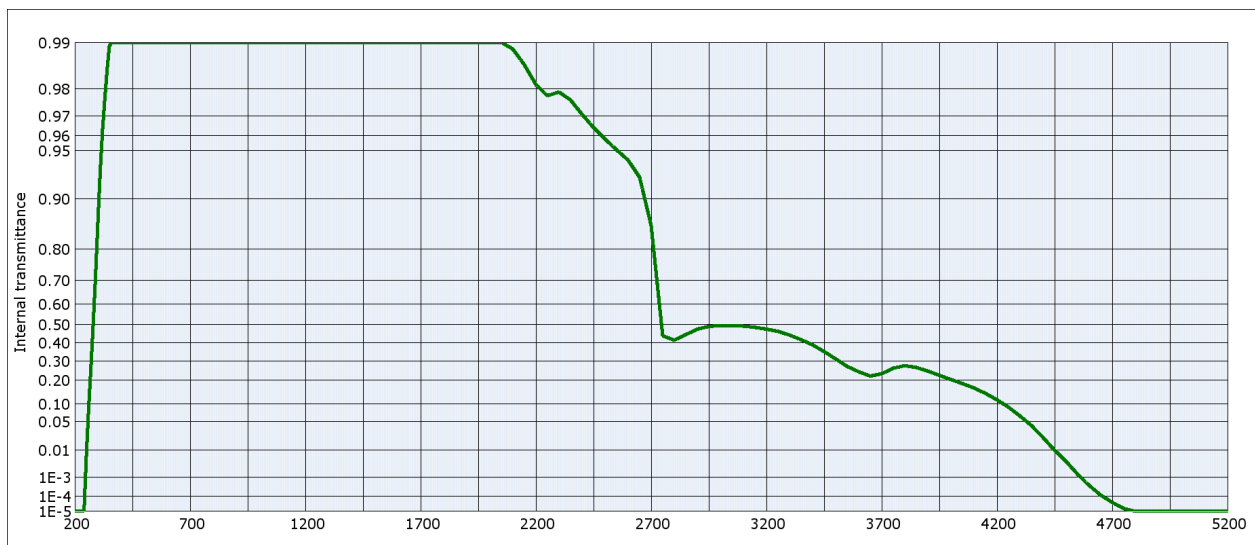
Refractive Index n	
n (296.7 nm) =	1.550
n _d (587.6 nm) =	1.520
n _i (1014.0 nm) =	1.510

Temperature coefficient	
T _K [nm/°C]	0.06

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]
x				x				x			
y				y				y			
Y				Y				Y			
λ_d [nm]				λ_d [nm]				λ_d [nm]			
P _e				P _e				P _e			





Internal transmittance τ_i at reference thickness $d = 2$ 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	0.997	800	1.000	1100	1.000	2200	0.981	3700	0.233
210	$< 10^{-5}$	510	0.998	810	1.000	1110	1.000	2250	0.978	3750	0.261
220	$< 10^{-5}$	520	0.998	820	1.000	1120	1.000	2300	0.979	3800	0.275
230	$< 10^{-5}$	530	0.998	830	1.000	1130	1.000	2350	0.976	3850	0.265
240	$< 10^{-5}$	540	0.998	840	1.000	1140	1.000	2400	0.971	3900	0.246
250	$6.6 \cdot 10^{-3}$	550	0.998	850	1.000	1150	1.000	2450	0.964	3950	0.225
260	$8.6 \cdot 10^{-2}$	560	0.998	860	1.000	1160	1.000	2500	0.958	4000	0.204
270	0.268	570	0.999	870	1.000	1170	1.000	2550	0.951	4050	0.184
280	0.505	580	0.999	880	1.000	1180	1.000	2600	0.943	4100	0.165
290	0.716	590	0.999	890	1.000	1190	1.000	2650	0.926	4150	0.141
300	0.861	600	0.999	900	1.000	1200	1.000	2700	0.854	4200	0.116
310	0.932	610	0.999	910	1.000	1250	1.000	2750	0.438	4250	$9.0 \cdot 10^{-2}$
320	0.963	620	0.999	920	1.000	1300	1.000	2800	0.415	4300	$6.4 \cdot 10^{-2}$
330	0.977	630	0.999	930	1.000	1350	1.000	2850	0.444	4350	$4.1 \cdot 10^{-2}$
340	0.985	640	1.000	940	1.000	1400	0.999	2900	0.474	4400	$2.2 \cdot 10^{-2}$
350	0.989	650	1.000	950	1.000	1450	1.000	2950	0.488	4450	$1.0 \cdot 10^{-2}$
360	0.992	660	1.000	960	1.000	1500	1.000	3000	0.493	4500	$4.3 \cdot 10^{-3}$
370	0.993	670	1.000	970	1.000	1550	1.000	3050	0.493	4550	$1.4 \cdot 10^{-3}$
380	0.994	680	1.000	980	1.000	1600	1.000	3100	0.490	4600	$4.1 \cdot 10^{-4}$
390	0.994	690	1.000	990	1.000	1650	1.000	3150	0.484	4650	$1.2 \cdot 10^{-4}$
400	0.995	700	1.000	1000	1.000	1700	1.000	3200	0.474	4700	$4.2 \cdot 10^{-5}$
410	0.995	710	1.000	1010	1.000	1750	1.000	3250	0.462	4750	$1.6 \cdot 10^{-5}$
420	0.995	720	1.000	1020	1.000	1800	1.000	3300	0.442	4800	$< 10^{-5}$
430	0.996	730	1.000	1030	1.000	1850	0.999	3350	0.417	4850	$< 10^{-5}$
440	0.996	740	1.000	1040	1.000	1900	0.998	3400	0.389	4900	$< 10^{-5}$
450	0.996	750	1.000	1050	1.000	1950	0.997	3450	0.352	4950	$< 10^{-5}$
460	0.996	760	1.000	1060	1.000	2000	0.996	3500	0.311	5000	$< 10^{-5}$
470	0.997	770	1.000	1070	1.000	2050	0.994	3550	0.271	5050	$< 10^{-5}$
480	0.997	780	1.000	1080	1.000	2100	0.989	3600	0.243	5100	$< 10^{-5}$
490	0.997	790	1.000	1090	1.000	2150	0.986	3650	0.221	5150	$< 10^{-5}$