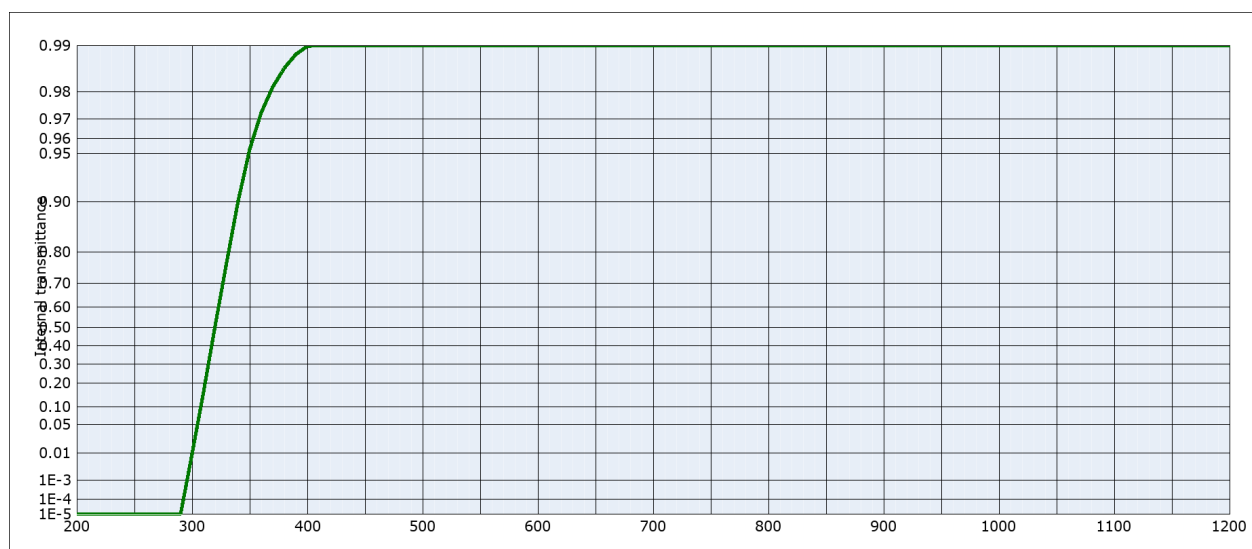


DATA SHEET

SCHOTT WG320

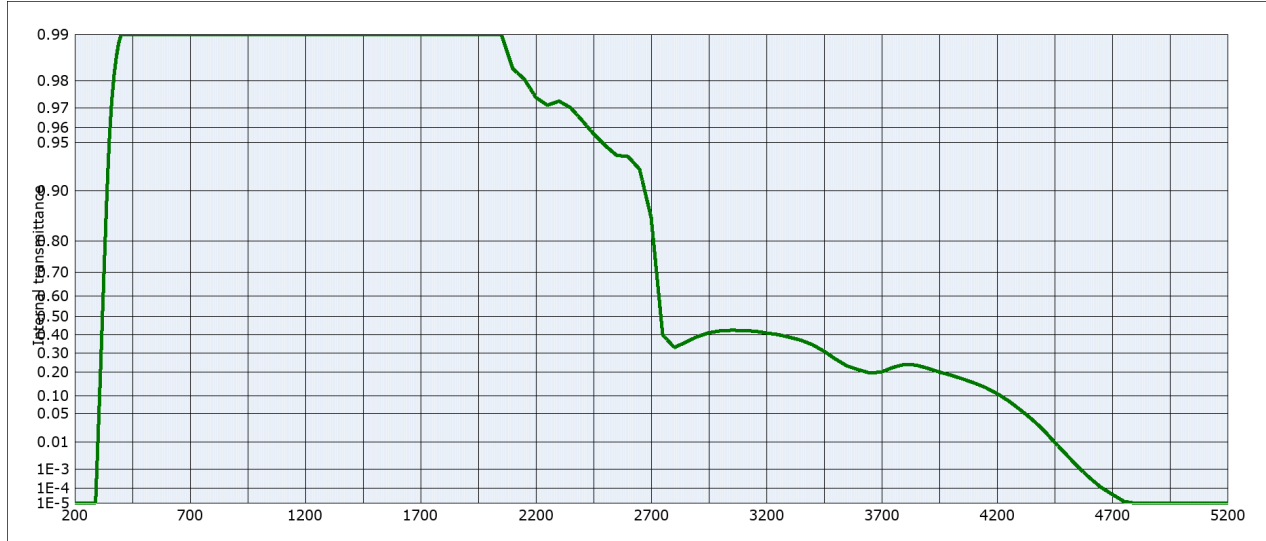
N-WG320		Density		Notes	
		ρ [g/cm ³]	2.51	Base glass	
		Bubble content		Longpass filter	
Reflection factor					
P_d	0.918	Bubble class		1	
Reference thickness		Chemical Resistance			
d [mm]	2	FR class	0		
		SR class	1.0		
		AR class	2.0		
Spectral values guaranteed		Transformation temperature			
λ_c ($\tau_i = 0.5$) [nm]	= 320 ± 6	Tg [°C]	563		
λ_s ($\tau_{i,U} = 0.00001$) [nm]	= 280	Thermal expansion			
λ_p ($\tau_{i,L} = 0.99$) [nm]	= 470	$\alpha_{-30/+70^\circ\text{C}}$ [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		Temperature coefficient			
n_i (365.0 nm)	= 1.540	T_K [nm/°C]	0.06		
n_d (587.6 nm)	= 1.520				
n_t (1014.0 nm)	= 1.510				
				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				x				x			
y				y				y			
Y				Y				Y			
λ_d [nm]				λ_d [nm]				λ_d [nm]			
P_e				P_e				P_e			



DATA SHEET

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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	0.994	800	0.998	1100	1.000	2200	0.974	3700	0.202
210	$< 10^{-5}$	510	0.994	810	0.998	1110	1.000	2250	0.971	3750	0.225
220	$< 10^{-5}$	520	0.995	820	0.998	1120	1.000	2300	0.973	3800	0.240
230	$< 10^{-5}$	530	0.995	830	0.999	1130	1.000	2350	0.970	3850	0.236
240	$< 10^{-5}$	540	0.995	840	0.999	1140	1.000	2400	0.964	3900	0.220
250	$< 10^{-5}$	550	0.995	850	0.999	1150	1.000	2450	0.956	3950	0.201
260	$< 10^{-5}$	560	0.996	860	0.999	1160	1.000	2500	0.948	4000	0.186
270	$< 10^{-5}$	570	0.996	870	0.999	1170	1.000	2550	0.940	4050	0.169
280	$< 10^{-5}$	580	0.996	880	0.999	1180	1.000	2600	0.939	4100	0.152
290	$< 10^{-5}$	590	0.996	890	0.999	1190	1.000	2650	0.926	4150	0.132
300	$9.6 \cdot 10^{-3}$	600	0.996	900	0.999	1200	1.000	2700	0.854	4200	0.109
310	0.161	610	0.996	910	0.999	1250	1.000	2750	0.400	4250	$8.4 \cdot 10^{-2}$
320	0.507	620	0.997	920	0.999	1300	1.000	2800	0.330	4300	$6.0 \cdot 10^{-2}$
330	0.770	630	0.997	930	0.999	1350	1.000	2850	0.359	4350	$3.9 \cdot 10^{-2}$
340	0.901	640	0.997	940	0.999	1400	0.998	2900	0.390	4400	$2.2 \cdot 10^{-2}$
350	0.953	650	0.997	950	0.999	1450	1.000	2950	0.411	4450	$1.0 \cdot 10^{-2}$
360	0.973	660	0.997	960	0.999	1500	1.000	3000	0.422	4500	$4.0 \cdot 10^{-3}$
370	0.981	670	0.997	970	0.999	1550	1.000	3050	0.425	4550	$1.3 \cdot 10^{-3}$
380	0.986	680	0.997	980	0.999	1600	1.000	3100	0.424	4600	$4.1 \cdot 10^{-4}$
390	0.989	690	0.997	990	0.999	1650	1.000	3150	0.419	4650	$1.2 \cdot 10^{-4}$
400	0.990	700	0.997	1000	0.999	1700	1.000	3200	0.410	4700	$4.2 \cdot 10^{-5}$
410	0.991	710	0.998	1010	0.999	1750	0.999	3250	0.401	4750	$1.4 \cdot 10^{-5}$
420	0.991	720	0.998	1020	0.999	1800	0.998	3300	0.386	4800	$< 10^{-5}$
430	0.992	730	0.998	1030	0.999	1850	0.997	3350	0.370	4850	$< 10^{-5}$
440	0.992	740	0.998	1040	1.000	1900	0.996	3400	0.345	4900	$< 10^{-5}$
450	0.992	750	0.998	1050	1.000	1950	0.994	3450	0.309	4950	$< 10^{-5}$
460	0.993	760	0.998	1060	1.000	2000	0.993	3500	0.267	5000	$< 10^{-5}$
470	0.993	770	0.998	1070	1.000	2050	0.990	3550	0.231	5050	$< 10^{-5}$
480	0.993	780	0.998	1080	1.000	2100	0.983	3600	0.212	5100	$< 10^{-5}$
490	0.994	790	0.998	1090	1.000	2150	0.980	3650	0.196	5150	$< 10^{-5}$