

# Data Sheet



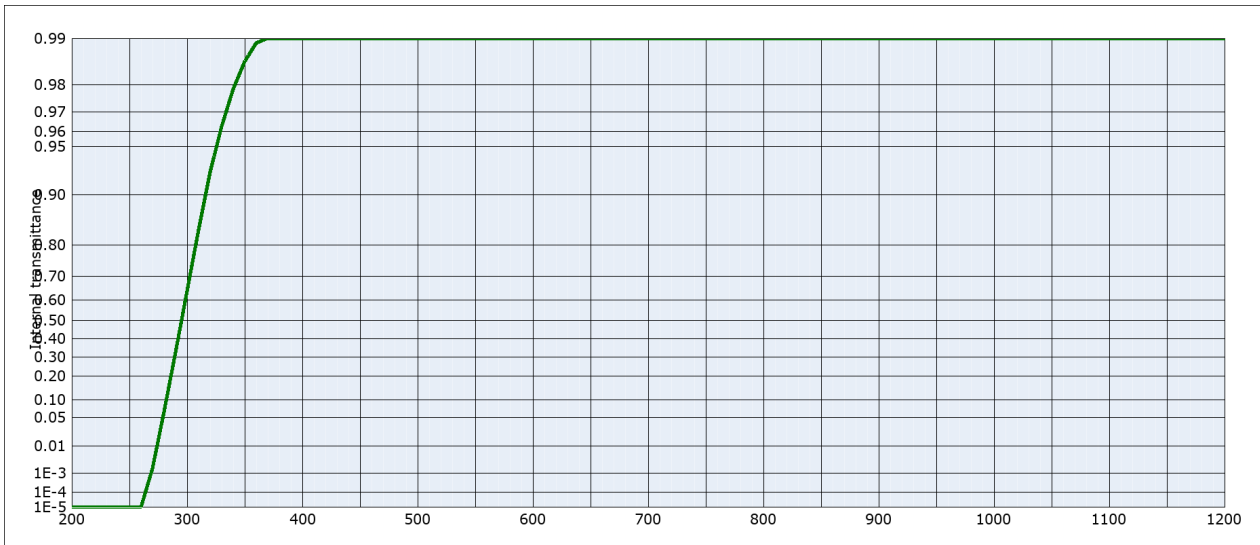
<b>N-WG295</b>	
<b>Reflection factor</b>	
$P_d$	0.918
<b>Reference thickness</b>	
d [mm]	2
<b>Spectral values guaranteed</b>	
$\lambda_c$ ( $\tau_i = 0.5$ ) [nm]	= 295 ± 6
$\lambda_s$ ( $\tau_{i,U} = 0.00001$ ) [nm]	= 250
$\lambda_p$ ( $\tau_{i,L} = 0.99$ ) [nm]	= 400
<b>Refractive Index n</b>	
n (296.7 nm)	= 1.550
$n_d$ (587.6 nm)	= 1.520
$n_i$ (1014.0 nm)	= 1.510

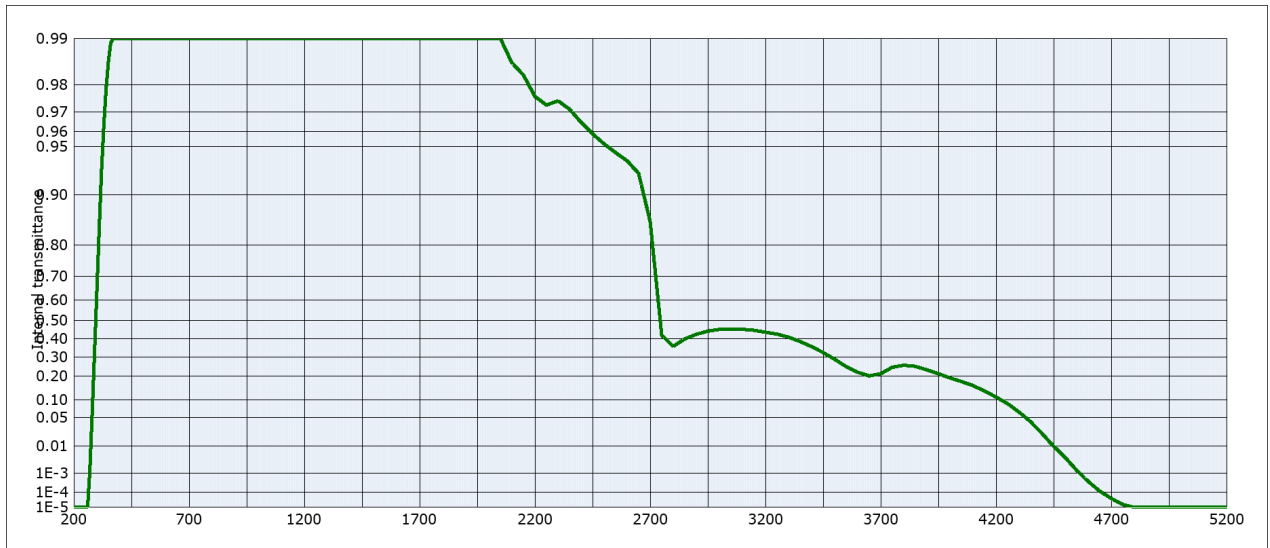
<b>Density</b>	
$\rho$ [g/cm <sup>3</sup> ]	2.51
<b>Bubble content</b>	
Bubble class	1
<b>Chemical Resistance</b>	
FR class	0
SR class	1.0
AR class	2.0
<b>Transformation temperature</b>	
T <sub>g</sub> [°C]	565
<b>Thermal expansion</b>	
$\alpha_{30/+70^\circ\text{C}}$ [10 <sup>-6</sup> /K]	7.2
$\alpha_{20/300^\circ\text{C}}$ [10 <sup>-6</sup> /K]	8.4
$\alpha_{20/200^\circ\text{C}}$ [10 <sup>-6</sup> /K]	
<b>Temperature coefficient</b>	
T <sub>K</sub> [nm/°C]	0.06

Notes
Base glass
Longpass filter
<b>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".</b>

### Colorimetric evaluation

Illuminant	A (Planck T = 2856 K)			Illuminant	Planck T = 3200 K			Illuminant	D65 (T <sub>C</sub> = 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			
$\lambda_d$ [nm]				$\lambda_d$ [nm]				$\lambda_d$ [nm]			
P <sub>e</sub>				P <sub>e</sub>				P <sub>e</sub>			





**Internal transmittance  $\tau_i$  at reference thickness  $d = 2$  mm**  
**The internal transmittance values, tabulated and graphically represented, are reference values only**

$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$
200	$< 10^{-5}$	500	0.997	800	1.000	1100	1.000	2200	0.976	3700	0.213
210	$< 10^{-5}$	510	0.997	810	1.000	1110	1.000	2250	0.973	3750	0.245
220	$< 10^{-5}$	520	0.997	820	1.000	1120	1.000	2300	0.975	3800	0.256
230	$< 10^{-5}$	530	0.997	830	1.000	1130	1.000	2350	0.971	3850	0.250
240	$< 10^{-5}$	540	0.997	840	1.000	1140	1.000	2400	0.965	3900	0.232
250	$< 10^{-5}$	550	0.998	850	1.000	1150	1.000	2450	0.959	3950	0.213
260	$< 10^{-5}$	560	0.998	860	1.000	1160	1.000	2500	0.952	4000	0.192
270	$1.6 \cdot 10^{-3}$	570	0.998	870	1.000	1170	1.000	2550	0.946	4050	0.175
280	$6.4 \cdot 10^{-2}$	580	0.998	880	1.000	1180	1.000	2600	0.939	4100	0.157
290	0.326	590	0.998	890	1.000	1190	1.000	2650	0.926	4150	0.134
300	0.639	600	0.998	900	1.000	1200	1.000	2700	0.854	4200	0.111
310	0.837	610	0.998	910	1.000	1250	1.000	2750	0.420	4250	$8.8 \cdot 10^{-2}$
320	0.928	620	0.999	920	1.000	1300	1.000	2800	0.358	4300	$6.4 \cdot 10^{-2}$
330	0.963	630	0.999	930	1.000	1350	1.000	2850	0.399	4350	$4.1 \cdot 10^{-2}$
340	0.979	640	0.999	940	1.000	1400	0.999	2900	0.424	4400	$2.2 \cdot 10^{-2}$
350	0.986	650	0.999	950	1.000	1450	1.000	2950	0.442	4450	$1.0 \cdot 10^{-2}$
360	0.989	660	0.999	960	1.000	1500	1.000	3000	0.451	4500	$4.3 \cdot 10^{-3}$
370	0.991	670	0.999	970	1.000	1550	1.000	3050	0.454	4550	$1.4 \cdot 10^{-3}$
380	0.992	680	0.999	980	1.000	1600	1.000	3100	0.452	4600	$4.1 \cdot 10^{-4}$
390	0.993	690	0.999	990	1.000	1650	1.000	3150	0.447	4650	$1.2 \cdot 10^{-4}$
400	0.993	700	1.000	1000	1.000	1700	1.000	3200	0.436	4700	$4.2 \cdot 10^{-5}$
410	0.994	710	1.000	1010	1.000	1750	1.000	3250	0.426	4750	$1.6 \cdot 10^{-5}$
420	0.994	720	1.000	1020	1.000	1800	0.999	3300	0.409	4800	$< 10^{-5}$
430	0.995	730	1.000	1030	1.000	1850	0.998	3350	0.385	4850	$< 10^{-5}$
440	0.995	740	1.000	1040	1.000	1900	0.996	3400	0.357	4900	$< 10^{-5}$
450	0.995	750	1.000	1050	1.000	1950	0.995	3450	0.324	4950	$< 10^{-5}$
460	0.995	760	1.000	1060	1.000	2000	0.993	3500	0.288	5000	$< 10^{-5}$
470	0.996	770	1.000	1070	1.000	2050	0.991	3550	0.249	5050	$< 10^{-5}$
480	0.996	780	1.000	1080	1.000	2100	0.986	3600	0.220	5100	$< 10^{-5}$
490	0.996	790	1.000	1090	1.000	2150	0.983	3650	0.202	5150	$< 10^{-5}$