

RG630

Optical properties	
Reflection factor	
$P_d = 0,918$	
Spectral values guaranteed (d = 3 mm)	
$\lambda_c (\tau_i = 0,5)$	= 630 nm \pm 6 nm
$\lambda_s (\tau_{i,U} = 1E-05)$	= 540 nm
$\lambda_p (\tau_{i,L} = 0,94)$	= 710 nm
Refractive indices	
$n_d (587,6 \text{ nm})$	= 1,52
$n_s (852 \text{ nm})$	= 1,52
$n_t (1014 \text{ nm})$	= 1,51
Sellmeier coefficients	
on request	
Internal quality	
Bubble class	3

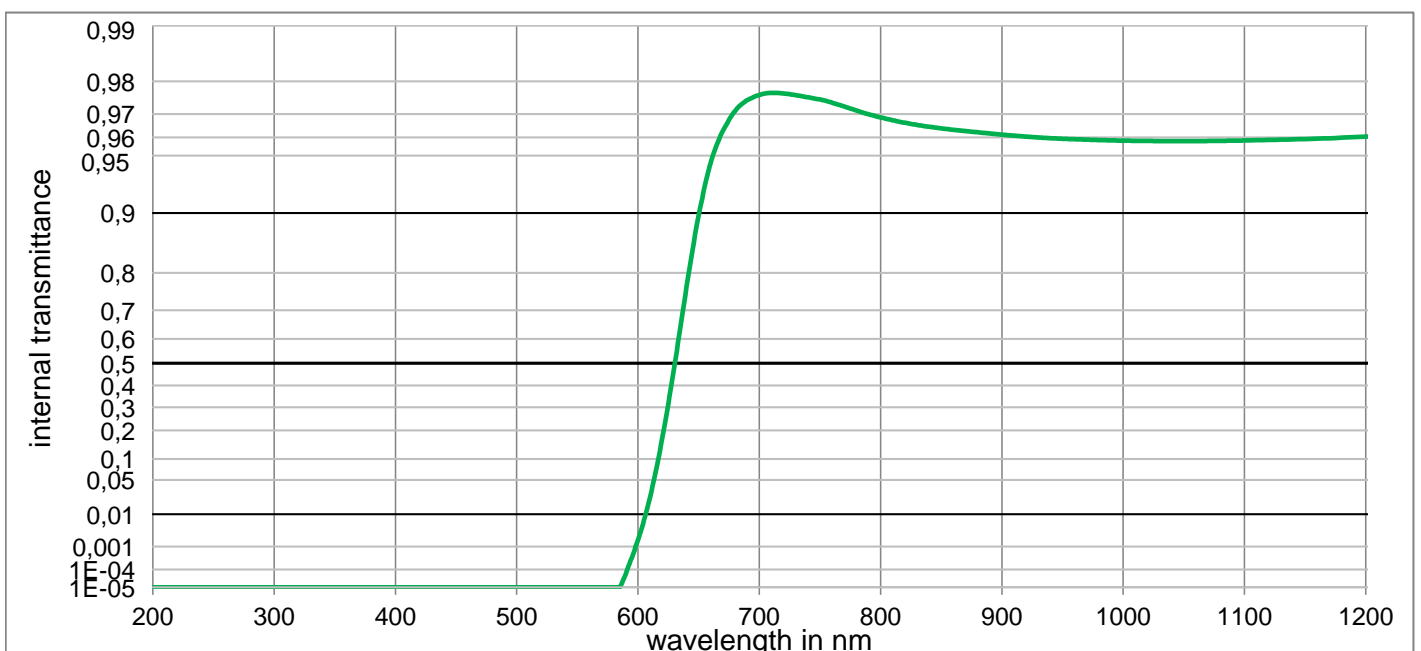
Mechanical properties	
Reference thickness	
d = 3,00 mm	
Density	
$\rho = 2,65 \text{ g/cm}^3$	
Knoop hardness	
$HK_{[0.1/20]} = 456$	

Thermal properties	
Transformation temperature	
$T_g = 527 \text{ }^\circ\text{C}$	
Thermal expansion in $10^{-6}/\text{K}$	
$\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})}$	= 8,0
$\alpha_{(20^\circ\text{C}/300^\circ\text{C})}$	= 9,2
Temperature coefficient	
Tk = 0,14 nm/K	

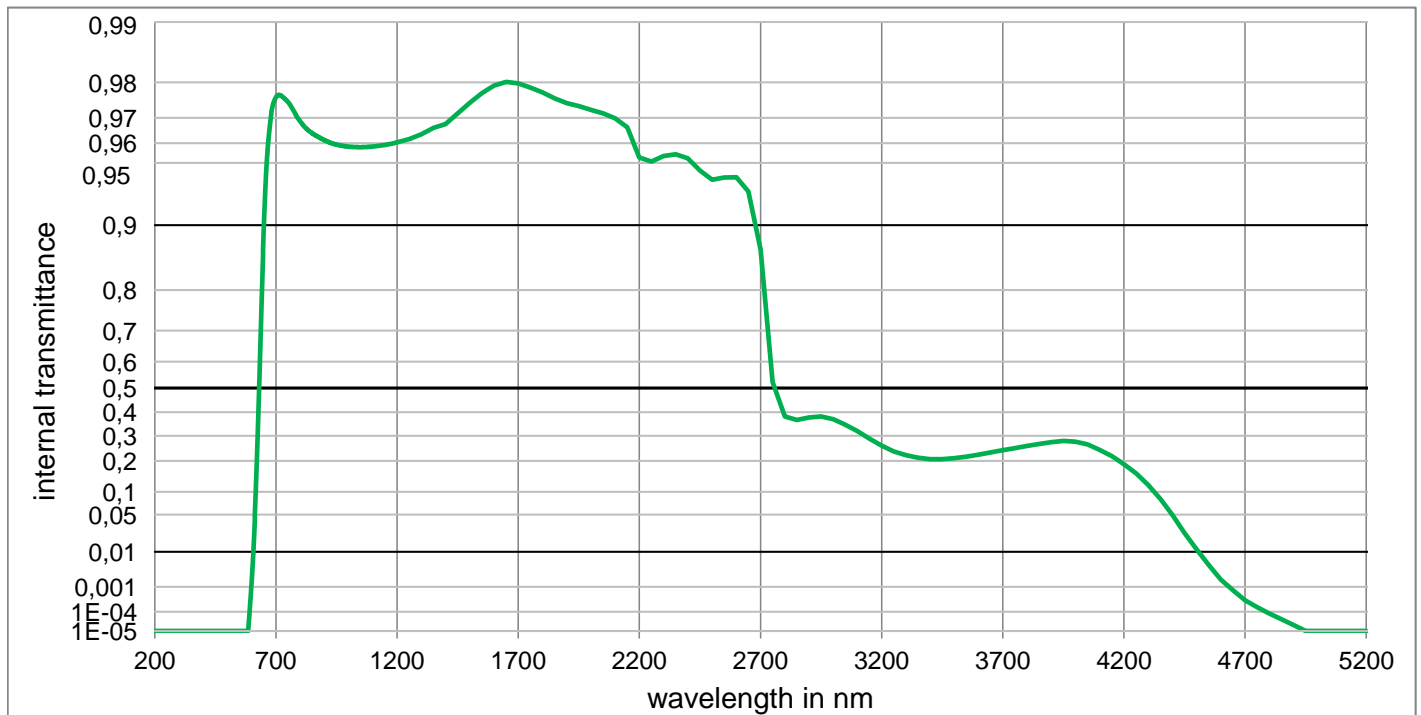
Chemical properties	
Chemical resistance	
FR class	= 0
SR class	= 1
AR class	= 1

Colormetric properties				
		1 mm	2 mm	3 mm
Illuminant D65	x	0,624	0,708	0,716
	y	0,305	0,289	0,284
	Y	9,3	5,1	4,0
	λ_d	625 nm	633 nm	637 nm
	P_e	0,802	0,992	1,000
Illuminant A	x	0,678	0,712	0,718
	y	0,307	0,287	0,282
	Y	14,8	9,4	7,6
	λ_d	627 nm	634 nm	639 nm
	P_e	0,899	0,996	0,999

Notes	
Stricking glass	
Longpass filter	
DIN 58131	
Disclaimer	
All data without tolerances are to be understood to be reference values	



RG630



Internal transmittance τ_i at reference thickness

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	< 1,000E-05	800	9,688E-01	1100	9,585E-01	2200	9,530E-01	3700	2,410E-01
210	< 1,0E-05	510	< 1,000E-05	810	9,676E-01	1110	9,586E-01	2250	9,509E-01	3750	2,495E-01
220	< 1,0E-05	520	< 1,000E-05	820	9,666E-01	1120	9,587E-01	2300	9,537E-01	3800	2,579E-01
230	< 1,0E-05	530	< 1,000E-05	830	9,657E-01	1130	9,589E-01	2350	9,546E-01	3850	2,660E-01
240	< 1,0E-05	540	< 1,000E-05	840	9,649E-01	1140	9,590E-01	2400	9,525E-01	3900	2,735E-01
250	< 1,0E-05	550	< 1,000E-05	850	9,642E-01	1150	9,592E-01	2450	9,456E-01	3950	2,783E-01
260	< 1,0E-05	560	< 1,000E-05	860	9,636E-01	1160	9,594E-01	2500	9,395E-01	4000	2,755E-01
270	< 1,0E-05	570	< 1,000E-05	870	9,630E-01	1170	9,596E-01	2550	9,412E-01	4050	2,645E-01
280	< 1,0E-05	580	< 1,000E-05	880	9,625E-01	1180	9,598E-01	2600	9,412E-01	4100	2,425E-01
290	< 1,0E-05	590	6,236E-05	890	9,619E-01	1190	9,601E-01	2650	9,312E-01	4150	2,177E-01
300	< 1,0E-05	600	1,716E-03	900	9,614E-01	1200	9,604E-01	2700	8,695E-01	4200	1,884E-01
310	< 1,0E-05	610	2,467E-02	910	9,608E-01	1250	9,619E-01	2750	5,243E-01	4250	1,559E-01
320	< 1,000E-05	620	1,692E-01	920	9,604E-01	1300	9,638E-01	2800	3,813E-01	4300	1,198E-01
330	< 1,000E-05	630	4,871E-01	930	9,600E-01	1350	9,664E-01	2850	3,670E-01	4350	8,250E-02
340	< 1,000E-05	640	7,652E-01	940	9,596E-01	1400	9,678E-01	2900	3,776E-01	4400	4,948E-02
350	< 1,000E-05	650	8,970E-01	950	9,593E-01	1450	9,715E-01	2950	3,817E-01	4450	2,448E-02
360	< 1,000E-05	660	9,457E-01	960	9,591E-01	1500	9,748E-01	3000	3,698E-01	4500	1,133E-02
370	< 1,000E-05	670	9,631E-01	970	9,589E-01	1550	9,774E-01	3050	3,471E-01	4550	4,684E-03
380	< 1,000E-05	680	9,711E-01	980	9,587E-01	1600	9,792E-01	3100	3,189E-01	4600	1,739E-03
390	< 1,000E-05	690	9,747E-01	990	9,585E-01	1650	9,801E-01	3150	2,884E-01	4650	7,540E-04
400	< 1,000E-05	700	9,763E-01	1000	9,584E-01	1700	9,798E-01	3200	2,589E-01	4700	3,162E-04
410	< 1,000E-05	710	9,769E-01	1010	9,583E-01	1750	9,788E-01	3250	2,366E-01	4750	1,596E-04
420	< 1,000E-05	720	9,768E-01	1020	9,582E-01	1800	9,776E-01	3300	2,219E-01	4800	8,375E-05
430	< 1,000E-05	730	9,763E-01	1030	9,582E-01	1850	9,760E-01	3350	2,117E-01	4850	4,355E-05
440	< 1,000E-05	740	9,756E-01	1040	9,582E-01	1900	9,747E-01	3400	2,061E-01	4900	2,203E-05
450	< 1,000E-05	750	9,749E-01	1050	9,581E-01	1950	9,737E-01	3450	2,064E-01	4950	< 1,000E-05
460	< 1,000E-05	760	9,740E-01	1060	9,582E-01	2000	9,727E-01	3500	2,103E-01	5000	< 1,000E-05
470	< 1,000E-05	770	9,727E-01	1070	9,582E-01	2050	9,715E-01	3550	2,160E-01	5050	< 1,000E-05
480	< 1,000E-05	780	9,713E-01	1080	9,583E-01	2100	9,698E-01	3600	2,240E-01	5100	< 1,000E-05
490	< 1,000E-05	790	9,700E-01	1090	9,584E-01	2150	9,666E-01	3650	2,323E-01	5150	< 1,000E-05