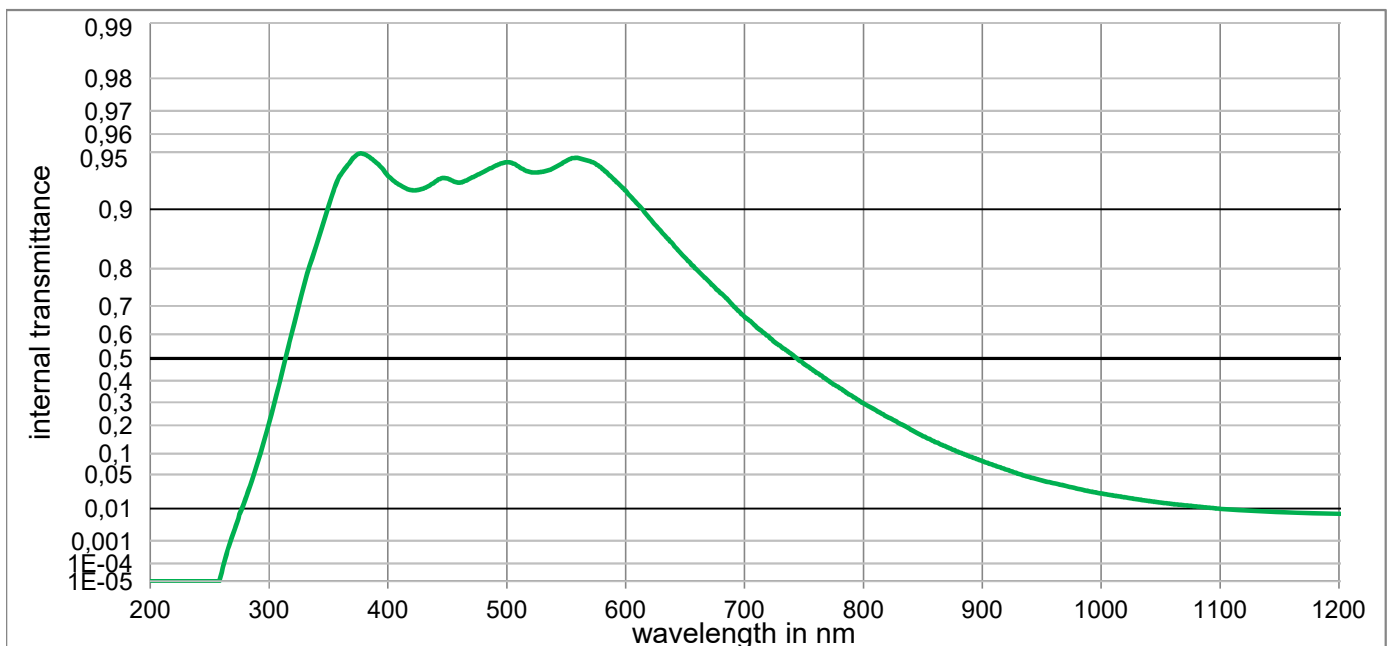
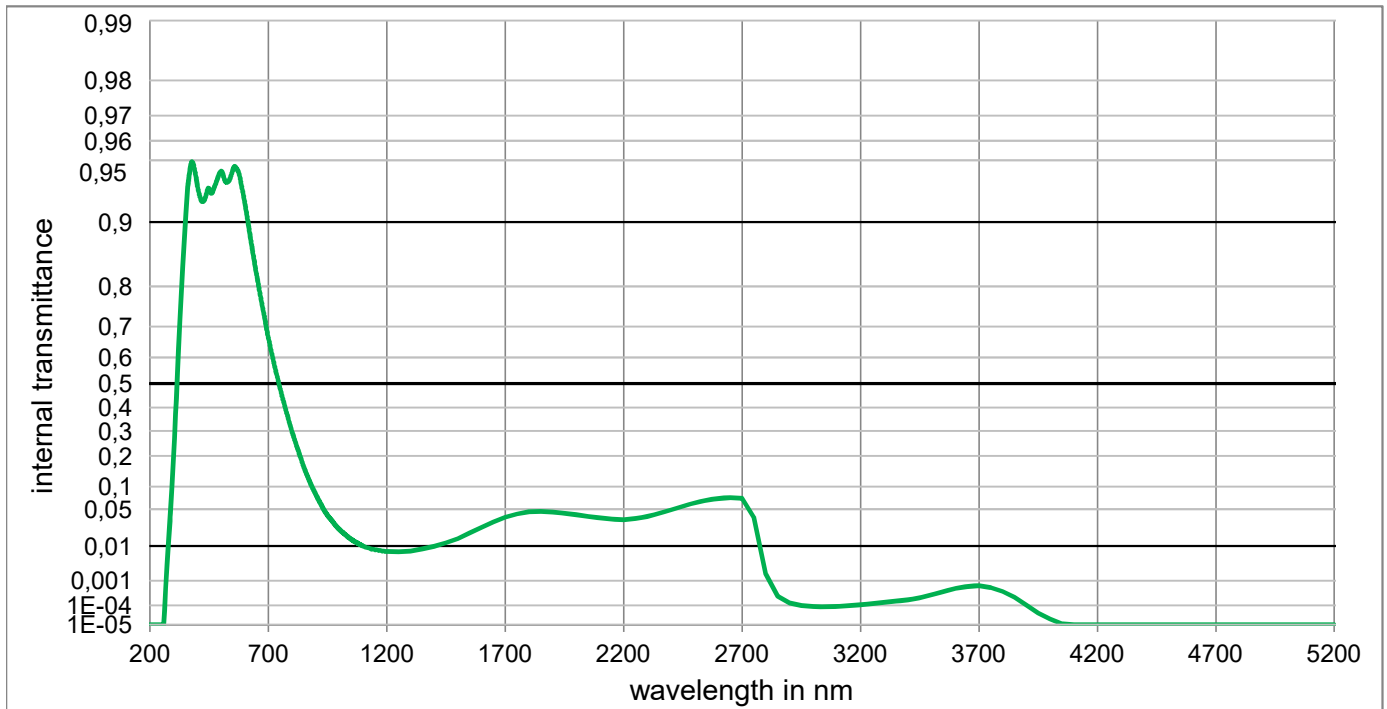


## KG1

Optical properties	Mechanical properties	Colorimetric properties
<b>Reflection factor</b>	<b>Reference thickness</b>	1 mm    2 mm    3 mm
$P_d = 0,918$	$d = 2,00 \text{ mm}$	Illuminant D65 x 0,311    0,309    0,307 y 0,330    0,331    0,332 Y 88,7    85,6    82,6 $\lambda_d$ 497 nm    497 nm    498 nm P <sub>e</sub> 0,006    0,013    0,018
<b>Spectral values guaranteed (d = 2 mm)</b>	<b>Density</b>	
$\lambda_c (\tau_i = 0,5) = \text{nm nm}$	$\rho = 2,52 \text{ g/cm}^3$	
$\lambda_s (\tau_{i,U} = ) = \text{nm}$	<b>Knoop hardness</b>	
$\lambda_p (\tau_{i,L} = ) = \text{nm}$	$HK_{[0,1/20]} = 456$	
$t_i (800 \text{ nm} \leq 0,33)$	<b>Thermal properties</b>	Illuminant A x 0,444    0,441    0,438 y 0,409    0,411    0,413 Y 88,4    84,9    81,6 $\lambda_d$ 505 nm    505 nm    505 nm P <sub>e</sub> 0,007    0,014    0,021
$\tau_i (900 \text{ nm} \leq 0,1)$	<b>Transformation temperature</b>	
	$T_g = 599 \text{ }^\circ\text{C}$	
	<b>Thermal expansion in <math>10^{-6}/\text{K}</math></b>	
	$\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})} = 5,3$	
<b>Refractive indices</b>	$\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 6,1$	<b>Notes</b>
$n_d (587,6 \text{ nm}) = 1,52$		UV
		Transmission changes are possible under the action of intense ultraviolet radiation.
		Ionically colored glass
<b>Sellmeier coefficients</b>	<b>Chemical properties</b>	
on request	<b>Chemical resistance</b>	
	FR class = 0	
	SR class = 2	
	AR class = 3	
		DIN 58131
	Long-term changes in the polished surface are possible under some circumstances.	
<b>Internal quality</b>		<b>Disclaimer</b>
Bubble class 3		All data without tolerances are to be understood to be reference values



## KG1



Internal transmittance $\tau_i$ at reference thickness											
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	< 1,0E-05	500	9,434E-01	800	2,936E-01	1100	9,948E-03	2200	3,377E-02	3700	6,632E-04
210	< 1,0E-05	510	9,402E-01	810	2,650E-01	1110	9,410E-03	2250	3,523E-02	3750	5,698E-04
220	< 1,0E-05	520	9,362E-01	820	2,349E-01	1120	8,986E-03	2300	3,829E-02	3800	3,991E-04
230	< 1,0E-05	530	9,364E-01	830	2,082E-01	1130	8,642E-03	2350	4,292E-02	3850	2,350E-04
240	< 1,0E-05	540	9,395E-01	840	1,824E-01	1140	8,360E-03	2400	4,886E-02	3900	1,033E-04
250	< 1,0E-05	550	9,444E-01	850	1,581E-01	1150	8,157E-03	2450	5,536E-02	3950	4,236E-05
260	3,5E-05	560	9,463E-01	860	1,377E-01	1160	7,950E-03	2500	6,181E-02	4000	2,104E-05
270	2,0E-03	570	9,440E-01	870	1,206E-01	1170	7,750E-03	2550	6,692E-02	4050	1,117E-05
280	1,7E-02	580	9,389E-01	880	1,047E-01	1180	7,580E-03	2600	7,069E-02	4100	< 1,000E-05
290	7,3E-02	590	9,302E-01	890	9,150E-02	1190	7,453E-03	2650	7,279E-02	4150	< 1,000E-05
300	2,1E-01	600	9,199E-01	900	7,971E-02	1200	7,350E-03	2700	7,150E-02	4200	< 1,000E-05
310	4,2E-01	610	9,060E-01	910	6,939E-02	1250	7,200E-03	2750	3,692E-02	4250	< 1,000E-05
320	6,222E-01	620	8,887E-01	920	6,017E-02	1300	7,570E-03	2800	1,650E-03	4300	< 1,000E-05
330	7,690E-01	630	8,693E-01	930	5,187E-02	1350	8,490E-03	2850	2,541E-04	4350	< 1,000E-05
340	8,500E-01	640	8,481E-01	940	4,499E-02	1400	9,840E-03	2900	1,282E-04	4400	< 1,000E-05
350	9,040E-01	650	8,230E-01	950	3,971E-02	1450	1,182E-02	2950	9,931E-05	4450	< 1,000E-05
360	9,340E-01	660	7,970E-01	960	3,543E-02	1500	1,472E-02	3000	8,892E-05	4500	< 1,000E-05
370	9,456E-01	670	7,690E-01	970	3,157E-02	1550	1,909E-02	3050	8,612E-05	4550	< 1,000E-05
380	9,487E-01	680	7,380E-01	980	2,790E-02	1600	2,463E-02	3100	9,044E-05	4600	< 1,000E-05
390	9,433E-01	690	7,020E-01	990	2,477E-02	1650	3,097E-02	3150	9,750E-05	4650	< 1,000E-05
400	9,330E-01	700	6,640E-01	1000	2,230E-02	1700	3,707E-02	3200	1,074E-04	4700	< 1,000E-05
410	9,251E-01	710	6,280E-01	1010	2,029E-02	1750	4,196E-02	3250	1,208E-04	4750	< 1,000E-05
420	9,205E-01	720	5,921E-01	1020	1,846E-02	1800	4,558E-02	3300	1,397E-04	4800	< 1,000E-05
430	9,222E-01	730	5,530E-01	1030	1,677E-02	1850	4,635E-02	3350	1,594E-04	4850	< 1,000E-05
440	9,284E-01	740	5,170E-01	1040	1,525E-02	1900	4,488E-02	3400	1,805E-04	4900	< 1,000E-05
450	9,309E-01	750	4,770E-01	1050	1,404E-02	1950	4,284E-02	3450	2,178E-04	4950	< 1,000E-05
460	9,274E-01	760	4,393E-01	1060	1,300E-02	2000	4,076E-02	3500	2,881E-04	5000	< 1,000E-05
470	9,315E-01	770	4,012E-01	1070	1,212E-02	2050	3,830E-02	3550	3,919E-04	5050	< 1,000E-05
480	9,362E-01	780	3,658E-01	1080	1,133E-02	2100	3,616E-02	3600	5,113E-04	5100	< 1,000E-05
490	9,408E-01	790	3,290E-01	1090	1,062E-02	2150	3,447E-02	3650	6,113E-04	5150	< 1,000E-05