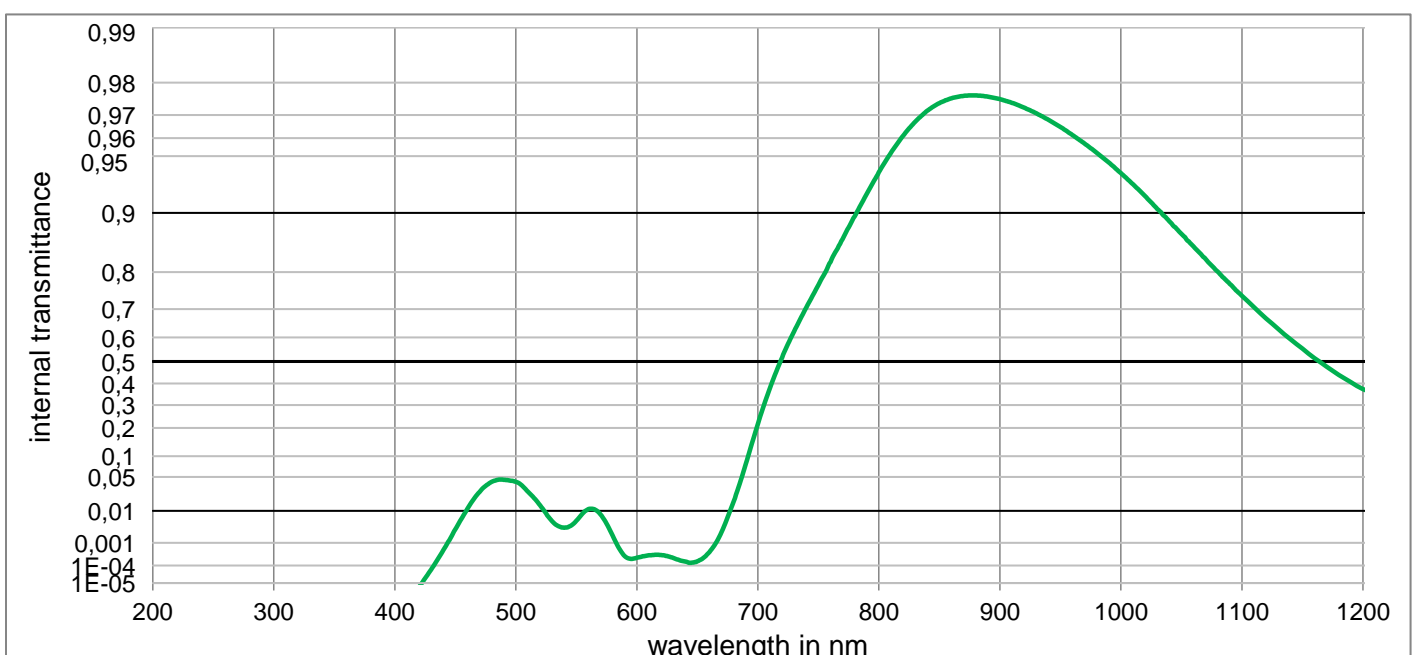


## RG905

Optical properties	Mechanical properties	Colorimetric properties
<b>Reflection factor</b>	<b>Reference thickness</b>	1 mm    2 mm    3 mm
$P_d = 0,921$	$d = 4,00 \text{ mm}$	Illuminant D65 x y Y $\lambda_d$ $P_e$
<b>Spectral values guaranteed</b>	<b>Density</b>	
$\tau_i (405 \text{ nm}) \leq 0,002$	$\rho = 2,54 \text{ g/cm}^3$	
$\tau_i (490 \text{ nm}) \leq 0,08$	<b>Knoop hardness</b>	
$\tau_i (645 \text{ nm}) \leq 0,002$	$HK[0.1/20] = 438$	
$\tau_i (905 \text{ nm}) \geq 0,97$		Illuminant A x y Y $\lambda_d$ $P_e$
	<b>Thermal properties</b>	
	<b>Transformation temperature</b>	
	$T_g = 481 \text{ }^\circ\text{C}$	
	<b>Thermal expansion in</b> $10^{-6}/\text{K}$	
<b>Refractive indices</b>	$\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})} = 8,7$	<b>Notes</b>          Bandpass filter / Longpass filter   ISO 23364:2021   <b>Disclaimer</b> All data without tolerances are to be understood to be reference values.
$n_F (486 \text{ nm}) = 1,516$	$\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 10,0$	
$n_e (546 \text{ nm}) = 1,512$		
$n_d (587,6 \text{ nm}) = 1,51$		
<b>Sellmeier coefficients</b>	<b>Chemical properties</b>	
valid from 440 nm to 1550 nm	<b>Chemical resistance</b>	
$B_1 = 0,6150$	FR class = 0	
$B_2 = 0,6285$	SR class = 1.0	
$B_3 = 13,7990$	AR class = 1.0	
$C_1 = 1,035\text{E-}02 \text{ } \mu\text{m}^2$	<b>Resistance against humidity</b>	
$C_2 = 1,0302\text{E-}02 \text{ } \mu\text{m}^2$		
$C_3 = 1939,581 \text{ } \mu\text{m}^2$		
<b>Internal quality</b>		
Bubble class -		



## RG905



**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	< 1,000E-05	500	4,144E-02	800	9,390E-01	1100	7,396E-01	2200	6,679E-01	3700	4,391E-02
210	< 1,000E-05	510	2,703E-02	810	9,520E-01	1110	7,055E-01	2250	6,951E-01	3750	4,577E-02
220	< 1,000E-05	520	1,361E-02	820	9,611E-01	1120	6,691E-01	2300	7,234E-01	3800	4,874E-02
230	< 1,000E-05	530	5,249E-03	830	9,674E-01	1130	6,316E-01	2350	7,420E-01	3850	5,293E-02
240	< 1,000E-05	540	3,344E-03	840	9,715E-01	1140	5,930E-01	2400	7,535E-01	3900	5,778E-02
250	< 1,000E-05	550	5,402E-03	850	9,741E-01	1150	5,546E-01	2450	7,528E-01	3950	6,183E-02
260	< 1,000E-05	560	1,107E-02	860	9,757E-01	1160	5,149E-01	2500	7,462E-01	4000	6,292E-02
270	< 1,000E-05	570	8,130E-03	870	9,764E-01	1170	4,769E-01	2550	7,382E-01	4050	5,930E-02
280	< 1,000E-05	580	1,843E-03	880	9,765E-01	1180	4,398E-01	2600	7,270E-01	4100	5,118E-02
290	< 1,000E-05	590	2,794E-04	890	9,762E-01	1190	4,054E-01	2650	7,110E-01	4150	4,086E-02
300	< 1,000E-05	600	2,365E-04	900	9,754E-01	1200	3,741E-01	2700	6,734E-01	4200	3,081E-02
310	< 1,000E-05	610	3,064E-04	910	9,742E-01	1250	2,610E-01	2750	4,409E-01	4250	2,192E-02
320	< 1,000E-05	620	3,155E-04	920	9,727E-01	1300	2,294E-01	2800	3,043E-01	4300	1,498E-02
330	< 1,000E-05	630	2,321E-04	930	9,706E-01	1350	2,554E-01	2850	2,767E-01	4350	9,436E-03
340	< 1,000E-05	640	1,576E-04	940	9,682E-01	1400	2,637E-01	2900	2,666E-01	4400	5,022E-03
350	< 1,000E-05	650	1,604E-04	950	9,651E-01	1450	2,237E-01	2950	2,536E-01	4450	2,197E-03
360	< 1,000E-05	660	4,276E-04	960	9,615E-01	1500	1,946E-01	3000	2,324E-01	4500	7,882E-04
370	< 1,000E-05	670	2,431E-03	970	9,572E-01	1550	2,015E-01	3050	2,053E-01	4550	2,409E-04
380	< 1,000E-05	680	1,696E-02	980	9,520E-01	1600	2,316E-01	3100	1,763E-01	4600	6,732E-05
390	< 1,000E-05	690	7,804E-02	990	9,458E-01	1650	2,511E-01	3150	1,484E-01	4650	1,888E-05
400	< 1,000E-05	700	2,159E-01	1000	9,384E-01	1700	2,453E-01	3200	1,232E-01	4700	< 1,000E-05
410	< 1,000E-05	710	3,800E-01	1010	9,293E-01	1750	2,398E-01	3250	1,019E-01	4750	< 1,000E-05
420	< 1,000E-05	720	5,179E-01	1020	9,183E-01	1800	2,556E-01	3300	8,420E-02	4800	< 1,000E-05
430	6,155E-05	730	6,230E-01	1030	9,046E-01	1850	3,022E-01	3350	7,017E-02	4850	< 1,000E-05
440	5,118E-04	740	7,044E-01	1040	8,896E-01	1900	3,686E-01	3400	5,923E-02	4900	< 1,000E-05
450	2,924E-03	750	7,693E-01	1050	8,716E-01	1950	4,445E-01	3450	5,152E-02	4950	< 1,000E-05
460	1,124E-02	760	8,221E-01	1060	8,510E-01	2000	5,108E-01	3500	4,635E-02	5000	< 1,000E-05
470	2,674E-02	770	8,634E-01	1070	8,273E-01	2050	5,626E-01	3550	4,383E-02	5050	< 1,000E-05
480	4,130E-02	780	8,957E-01	1080	8,012E-01	2100	6,059E-01	3600	4,281E-02	5100	< 1,000E-05
490	4,486E-02	790	9,207E-01	1090	7,714E-01	2150	6,425E-01	3650	4,292E-02	5150	< 1,000E-05