

Transmittance (T) units: %

λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	8.1	30.7	54.5	70.0	78.2	82.3	84.4	85.7
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	86.6	87.2	87.7	88.2	88.5	88.9	89.2	89.4	89.6	89.7	89.7	89.4	89.0	88.2	86.9	84.9	82.1	78.3	73.6	68.0
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	61.6	54.7	47.6	40.6	34.0	27.9	22.4	18.1	14.2	11.2	8.8	6.9	5.5	4.4	3.5	2.9	2.4	2.1	1.8	1.6
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	1.5	1.4	1.4	1.3	1.3	1.3	1.4	1.4	1.5	1.6	1.7	1.9	2.0	2.2	2.4	2.7	2.9	3.2	3.5	3.8
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	4.2	4.6	5.0	5.5	6.0	6.5	7.1	7.7	8.4	9.0	9.8	11.3	13.1	15.0	17.0	19.2				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.525	1.518	1.514	1.511	1.509	1.509	1.508
K	1.5E-06	9.9E-07	1.9E-05	1.7E-04	5.1E-04	8.9E-04	1.1E-03
P	0.917	0.919	0.920	0.920	0.921	0.921	0.921

Classes of Bubbles and Inclusions

Bubble Class
0

Color Specification

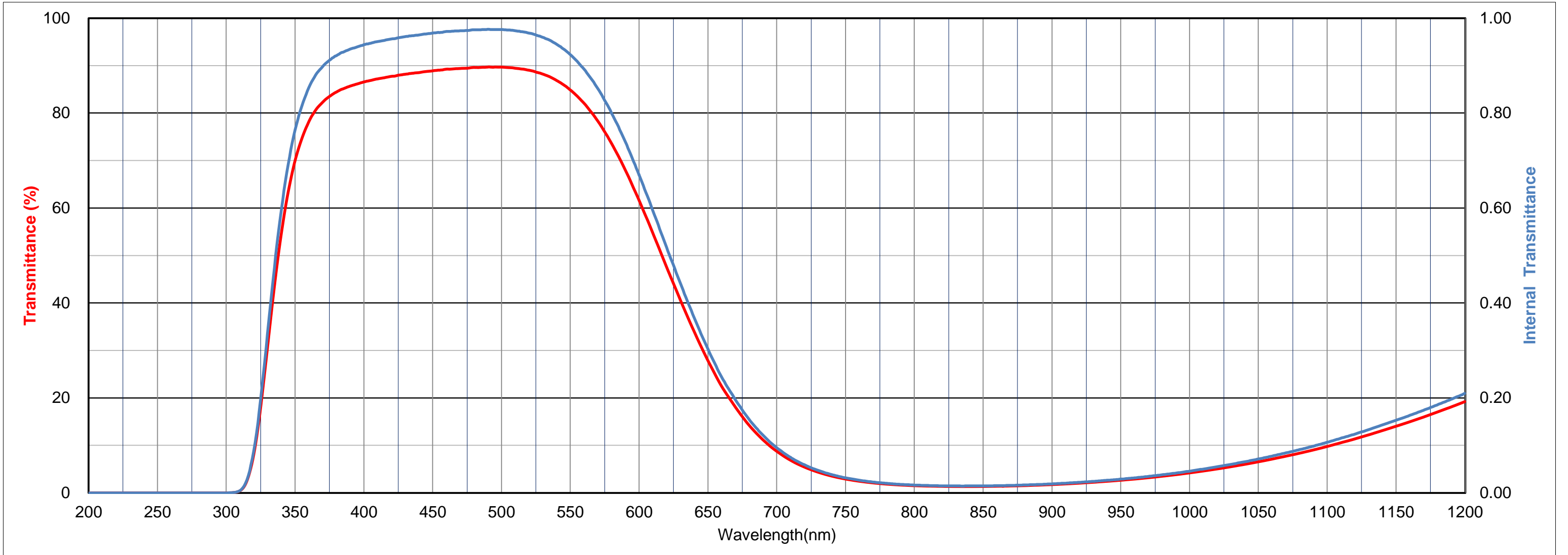
	x	y	Y	λ <sub>d</sub>	P <sub>e</sub>
A	0.387	0.425	72	500	14
C	0.267	0.309	77	489	16
D65	0.270	0.324	77	490	16

Properties

Chemical		Thermal				Mechanical		Others
D <sub>w</sub>	D <sub>A</sub>	T <sub>g</sub>	T <sub>s</sub>	α <sub>-30/70</sub>	α <sub>100/300</sub>	H <sub>K</sub>	F <sub>A</sub>	d
2	4	370	405	127	158	380	520	3.40

Tolerance of Transmittance (T)

Transmittance at 400nm	Transmittance at 500nm	Transmittance at 600nm
T400(%)	T500(%)	T600(%)
≥86	≥89	≥60



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λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	8.1	30.7	54.5	70.0	78.2	82.3	84.4	85.7	
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	
T	86.6	87.2	87.7	88.2	88.5	88.9	89.2	89.4	89.6	89.7	89.7	89.4	89.0	88.2	86.9	84.9	82.1	78.3	73.6	68.0	
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	
T	61.6	54.7	47.6	40.6	34.0	27.9	22.4	18.1	14.2	11.2	8.8	6.9	5.5	4.4	3.5	2.9	2.4	2.1	1.8	1.6	
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	
T	1.5	1.4	1.4	1.3	1.3	1.3	1.4	1.4	1.5	1.6	1.7	1.9	2.0	2.2	2.4	2.7	2.9	3.2	3.5	3.8	
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190	
T	4.2	4.6	5.0	5.5	6.0	6.5	7.1	7.7	8.4	9.0	9.8	10.6	11.3	12.2	13.1	14.0	15.0	16.0	17.0	18.1	
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390	
T	19.2	20.4	21.6	22.8	24.0	25.3	26.7	28.0	29.3	30.6	31.9	33.1	35.8	38.4	40.5	42.4	44.1	45.5	46.6	48.0	
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590	
T	49.2	50.4	51.5	52.6	53.7	54.7	55.8	56.7	57.8	58.8	59.8	60.8	61.7	62.7	63.6	64.4	65.3	66.2	67.0	67.8	
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790	
T	68.6	69.4	70.1	70.9	71.5	72.2	72.9	73.5	74.1	74.7	75.3	75.9	76.5	77.0	77.5	78.0	78.5	79.0	79.4	79.8	
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	
T	80.2	80.6	81.0	81.4	81.7	82.1	82.4	82.7	83.1	83.3	83.6	83.9	84.2	84.4	84.7	84.9	85.1	85.3	85.5	85.7	
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	
T	85.9	86.8	87.5	88.0	88.5	88.9	89.2	89.5	89.7	89.8	90.0	90.3	90.8	91.2	91.1	90.5	89.2	87.2	85.3	84.1	
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950	
T	83.1	82.4	81.9	81.5	81.4	81.4	81.6	81.8	82.0	82.2	82.4	82.7	83.0	83.4	83.7	83.9	83.7	82.8	81.0	78.0	
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950	
T	73.0	64.8	52.7	38.7	26.4	18.4	12.8	8.6	5.9	4.4	3.4	2.7	2.5	2.6	2.9	3.6	4.9	7.2	11.1	16.9	
λnm	5000																				
T	23.4																				

