

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	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	0.0	0.1	0.5	1.6	4.0	8.9	17.0	27.2	37.3	47.6	57.1	65.4	72.0	76.8	79.6	80.7	80.0	77.8	74.5	70.1
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	65.3	60.4	55.9	52.3	50.5	50.2	49.4	51.0	54.8	53.7	56.2	60.0	64.1	68.1	71.8	75.1	78.0	80.4	82.4	83.9
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	85.1	86.0	86.5	87.0	87.3	87.7	87.9	88.1	88.2	88.4	88.5	88.7	88.8	89.0	89.0	89.1	89.2	89.3	89.4	89.4
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	89.5	89.5	89.6	89.7	89.8	89.8	89.8	89.9	89.9	90.0	90.1	90.2	90.2	90.3	90.4	90.4				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.538	1.530	1.525	1.523	1.521	1.520	1.519
P	0.914	0.916	0.917	0.918	0.918	0.918	0.919

Classes of Bubbles and Inclusions

Bubble Class
3

Color Specification

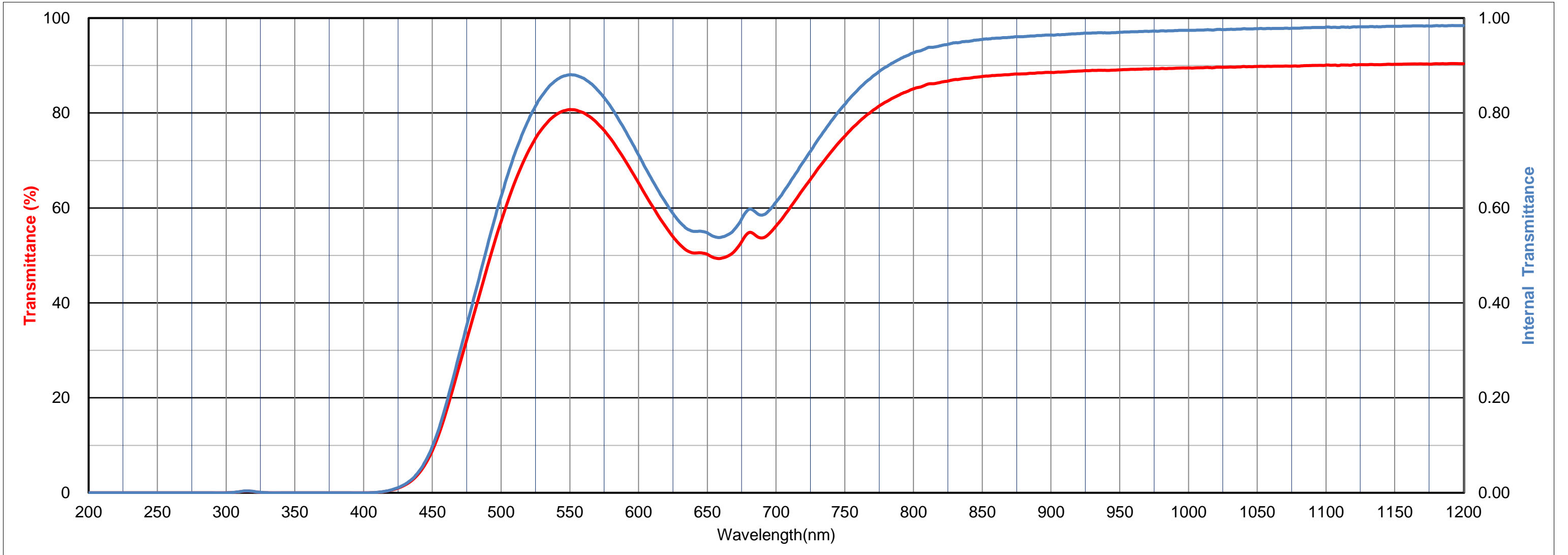
	x	y	Y	λ _d	P _e
A	0.467	0.478	70	575	63
C	0.379	0.481	69	567	63
D65	0.377	0.489	70	566	63

Properties

Chemical		Thermal				Mechanical		Others
D _w	D _A	T _g	T _s	α _{-30/70}	α _{100/300}	H _K	F _A	d
4	1	545	590	90	104	560	130	2.58

Tolerance of Transmittance (T)

Maximum Transmittance	Less than 1% Wavelength at Short wave Side	Less than 5% Wavelength at Long wave Side
Tmax(%)	λs1(nm)	λl5(nm)
82±3	>400	-



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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	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	0.0	0.1	0.5	1.6	4.0	8.9	17.0	27.2	37.3	47.6	57.1	65.4	72.0	76.8	79.6	80.7	80.0	77.8	74.5	70.1
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	65.3	60.4	55.9	52.3	50.5	50.2	49.4	51.0	54.8	53.7	56.2	60.0	64.1	68.1	71.8	75.1	78.0	80.4	82.4	83.9
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	85.1	86.0	86.5	87.0	87.3	87.7	87.9	88.1	88.2	88.4	88.5	88.7	88.8	89.0	89.0	89.1	89.2	89.3	89.4	89.4
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	89.5	89.5	89.6	89.7	89.8	89.8	89.8	89.9	89.9	90.0	90.1	90.0	90.2	90.2	90.2	90.3	90.3	90.3	90.4	90.4
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	90.4	90.5	90.6	90.5	90.5	90.5	90.6	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	90.6	90.9	90.3	90.6	90.5	90.5	90.9	90.7	90.5	90.7	90.5	90.6	90.6	90.6	90.6	90.3	90.6	90.3	90.4	90.4
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	90.3	90.4	90.5	90.5	90.3	90.4	90.3	90.4	90.3	90.3	90.2	90.1	90.2	90.1	90.1	90.1	90.1	90.0	90.0	90.0
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	90.0	89.9	90.0	90.0	89.9	90.0	89.9	89.9	89.9	89.7	89.9	89.8	89.8	89.8	89.7	89.7	89.6	89.6	89.7	89.6
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	89.6	89.4	89.0	88.7	88.0	87.7	87.7	87.2	86.6	86.1	85.5	85.2	85.0	84.0	81.8	53.1	36.2	35.8	36.8	37.5
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	37.6	37.0	35.8	34.1	32.2	30.2	28.2	26.1	24.1	22.4	21.3	20.9	20.7	20.5	20.4	20.9	21.7	22.4	22.7	22.3
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	21.4	20.1	18.4	16.3	14.1	11.9	9.4	6.8	4.4	2.5	1.2	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
λnm	5000																			
T	0.0																			

