HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

B460

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	0.0	0.1	1.9	11.0	27.3	44.0	56.6	65.3	71.2
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	75.4	78.3	80.3	81.9	83.1	84.0	84.5	84.6	84.0	82.7	80.5	77.0	72.3	66.4	59.6	52.2	44.7	37.5	30.8	24.8
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	19.8	15.6	12.2	9.5	7.4	5.8	4.5	3.7	3.0	2.4	2.1	1.8	1.5	1.4	1.3	1.2	1.1	1.1	1.0	1.0
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	1.0	1.0	1.1	1.1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.9	2.1	2.3	2.5	2.8	3.0	3.3	3.6	4.0
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	4.3	4.7	5.1	5.6	6.0	6.5	7.0	7.6	8.1	8.7	9.4	10.7	12.1	13.6	15.1	16.7				

Refractive Index/Absorption coefficient/Reflection coefficent

λnm	400	500	600	700	800	900	1000
n	1.543	1.533	1.527	1.523	1.521	1.520	1.519
K	2.8E-06	2.1E-06	2.9E-05	8.5E-05	1.2E-04	1.1E-04	9.3E-05
P	0.913	0.915	0.917	0.918	0.918	0.918	0.919

Classes of Bubbles and Inclusions

Bubble Class
3

Color Specification

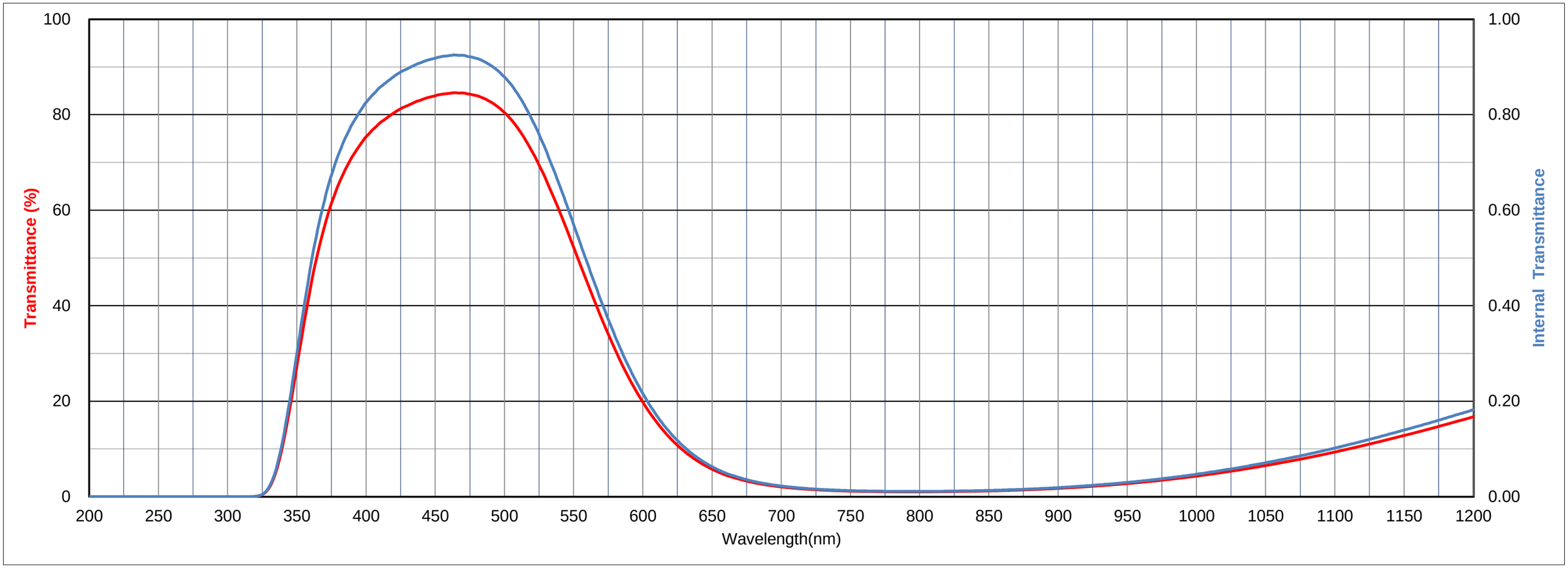
	x	y	Y	λ_d	P_e
A	0.289	0.405	39	495	37
C	0.203	0.258	47	484	45
D65	0.204	0.274	47	485	44

Properties

Chemical		Thermal				Mechanical		Others
D_W	D_A	Tg	Ts	α -30/70	α 100/300	H_K	F_A	d
2	1	505	555	94	109	540	110	2.60

Tolerance of Transmittance (T)

Maximum Transmitance	Less than 1% Wavelength at Short wave Side	Less than 5% Wavelength at Long wave Side
Tmax(%)	λs1(nm)	λl5(nm)
85±3	>320	<700



All data is mean values of various melts.

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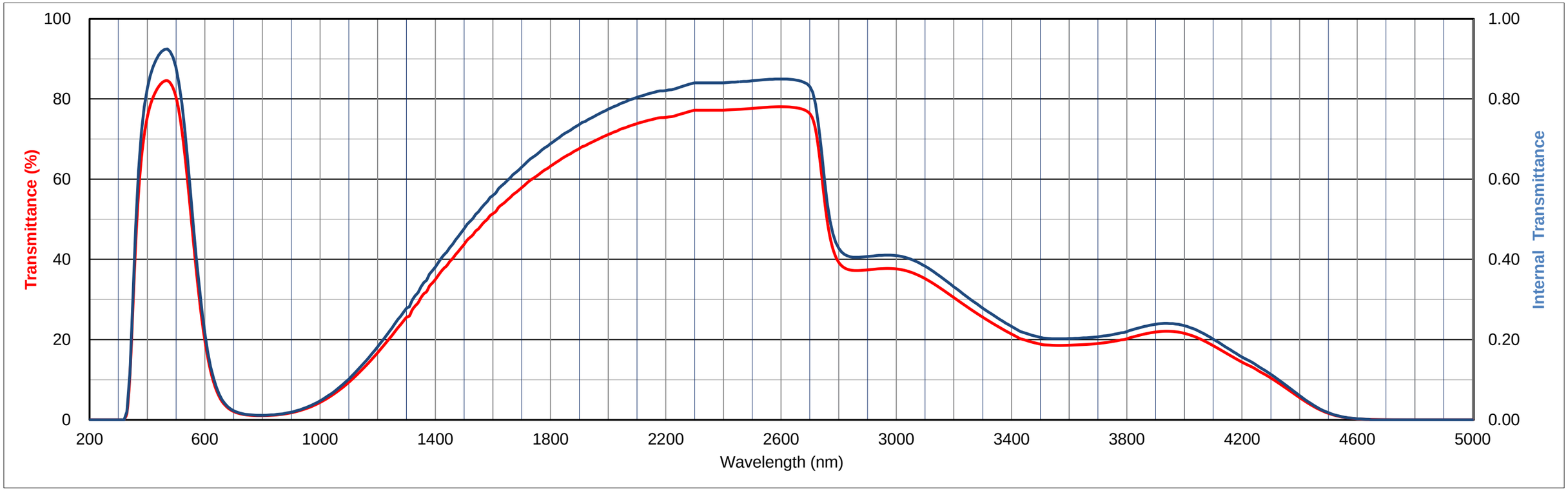
λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.9	11.0	27.3	44.0	56.6	65.3	71.2
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	75.4	78.3	80.3	81.9	83.1	84.0	84.5	84.6	84.0	82.7	80.5	77.0	72.3	66.4	59.6	52.2	44.7	37.5	30.8	24.8
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	19.8	15.6	12.2	9.5	7.4	5.8	4.5	3.7	3.0	2.4	2.1	1.8	1.5	1.4	1.3	1.2	1.1	1.1	1.0	1.0
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	1.0	1.0	1.1	1.1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.9	2.1	2.3	2.5	2.8	3.0	3.3	3.6	4.0
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	4.3	4.7	5.1	5.6	6.0	6.5	7.0	7.6	8.1	8.7	9.4	10.0	10.7	11.4	12.1	12.8	13.6	14.3	15.1	15.9
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	16.7	17.6	18.4	19.3	20.2	21.1	22.0	22.9	23.8	24.7	25.6	25.9	27.4	28.4	29.1	30.4	31.4	32.0	33.4	34.1
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	35.0	36.0	37.0	37.8	38.4	39.5	40.2	41.2	42.0	42.9	43.7	44.8	45.4	46.1	47.0	47.6	48.5	49.3	50.0	50.9
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	51.4	51.9	53.0	53.6	54.1	54.8	55.4	56.2	56.7	57.3	57.9	58.5	59.2	59.7	60.2	60.7	61.2	61.8	62.3	62.7
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	63.2	63.7	64.2	64.7	65.2	65.6	66.0	66.4	66.9	67.2	67.6	68.1	68.3	68.7	69.1	69.4	69.8	70.1	70.5	70.8
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	71.1	72.6	73.8	74.8	75.4	76.2	77.2	77.2	77.2	77.4	77.6	77.9	78.1	77.8	76.3	55.3	39.3	37.2	37.4	37.7
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	37.6	36.8	35.2	33.0	30.5	28.0	25.6	23.4	21.4	19.8	18.9	18.6	18.6	18.7	19.0	19.5	20.2	21.2	21.9	22.1
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	21.5	20.3	18.5	16.4	14.4	12.5	10.4	8.0	5.5	3.3	1.6	0.7	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
λnm	5000																			
T	0.0																			



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