



HOYA CANDEO OPTRONICS CORPORATION

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	0.0	0.0	0.0	0.0	0.0	3.7	22.2	45.7
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	63.0	73.3	79.1	82.3	84.2	85.2	85.9	86.4	86.7	87.0	87.1	87.3	87.4	87.5	87.6	87.8	87.9	88.0	88.0	88.1
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	88.1	88.2	88.2	88.2	88.3	88.3	88.3	88.4	88.4	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.7	88.6	88.6
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	88.6	88.7	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.8	88.8	88.9	89.0	89.0	89.2	89.2	89.1	89.2	89.2	89.3
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	89.3	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.5	89.5	89.5	89.6	89.6	89.6				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.615	1.597	1.588	1.583	1.580	1.578	1.577
K	4.1E-06	1.8E-07	4.7E-08	1.7E-08	7.8E-09	4.2E-09	2.6E-09
P	0.895	0.900	0.902	0.903	0.904	0.904	0.905

Classes of Bubbles and Inclusions

Bubble Class
3

Color Specification

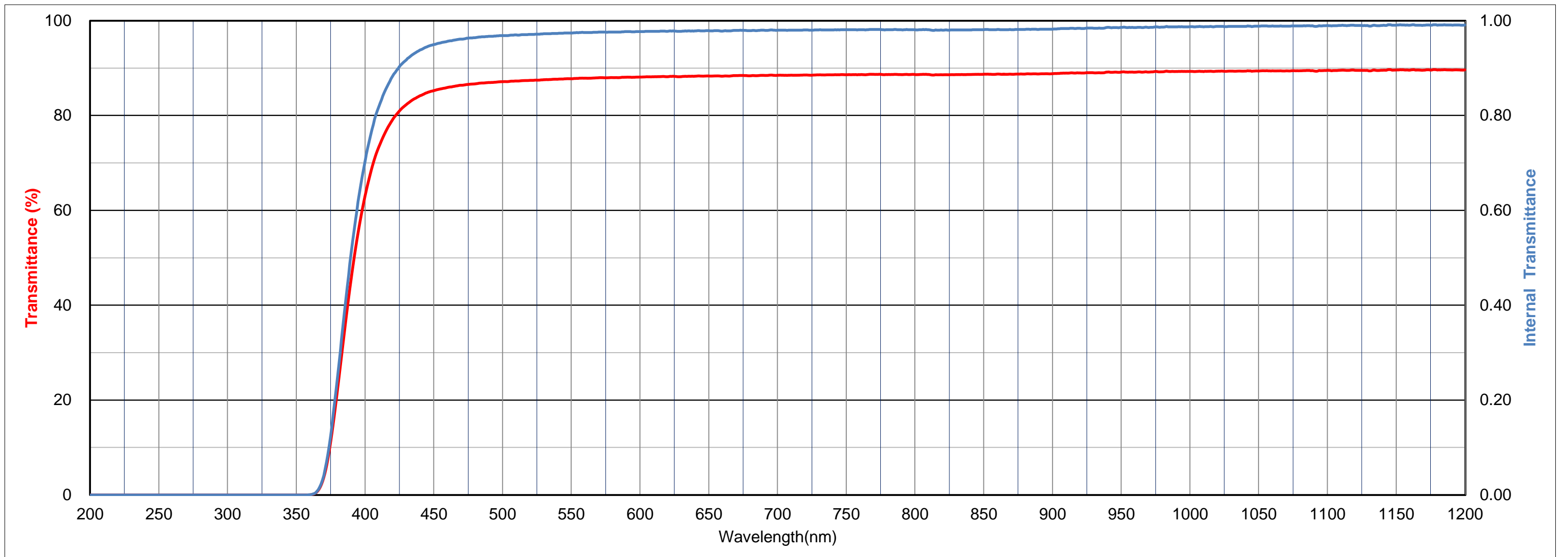
	x	y	Y	λ _d	P _e
A	0.450	0.409	88	582	3
C	0.313	0.321	88	572	2
D65	0.316	0.334	88	571	2

Properties

Chemical		Thermal				Mechanical		Others
D _w	D _A	T _g	T _s	α _{-30/70}	α _{100/300}	H _K	F _A	d
2	1	440	490	90	100	460	170	3.29

Tolerance of Transmittance (τ)

λτ (nm)	Δλ (nm)	TH (%)
390±5	<40	>85



All data is mean values of various melts.

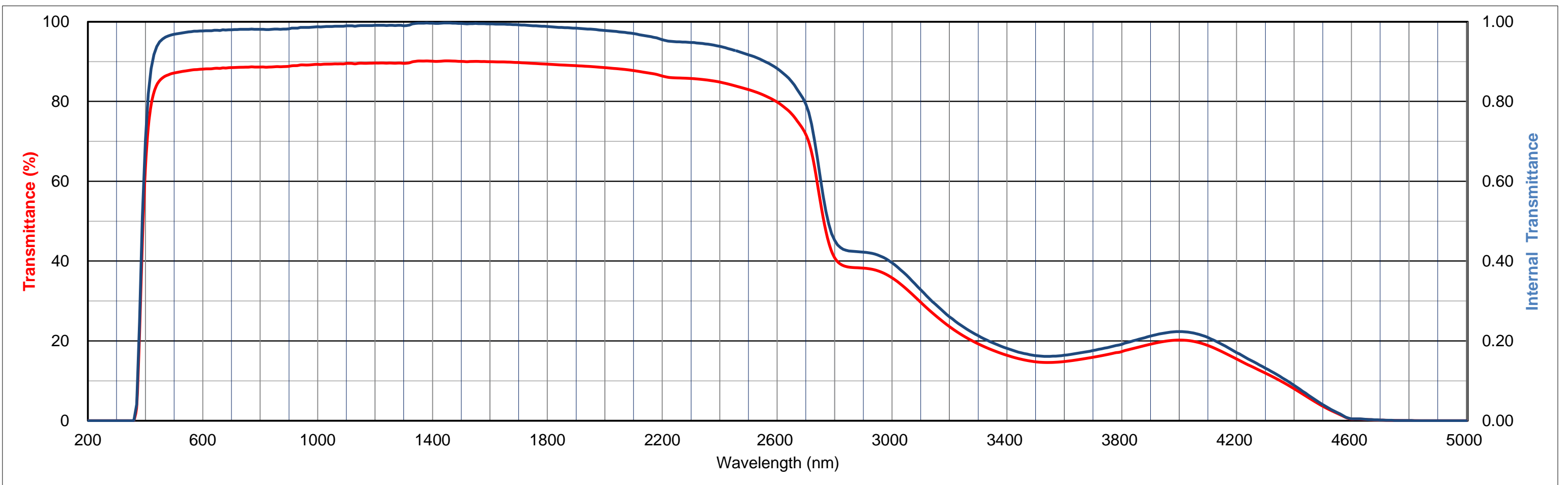
The content of this catalog is accurate as of April ,2014



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λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	63.0	73.3	79.1	82.3	84.2	85.2	85.9	86.4	86.7	87.0	87.1	87.3	87.4	87.5	87.6	87.8	87.9	88.0	88.0	88.1
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	88.1	88.2	88.2	88.2	88.3	88.3	88.3	88.4	88.4	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.7	88.6	88.6
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	88.6	88.7	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.8	88.8	88.9	89.0	89.0	89.2	89.2	89.1	89.2	89.2	89.3
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	89.3	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.5	89.5	89.5	89.4	89.5	89.6	89.6	89.6	89.6	89.6
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.5	89.6	89.7	89.9	90.0	90.1	90.1	90.1	90.2	90.1
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	90.1	90.0	90.1	90.1	90.2	90.2	90.2	90.1	90.1	90.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	90.0	90.0	89.9	89.9	89.9	89.9	89.9	89.9	89.8	89.8	89.8	89.7	89.7	89.6	89.6	89.5	89.5	89.5	89.4	89.4
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	89.4	89.3	89.3	89.2	89.2	89.1	89.1	89.1	89.0	89.0	89.0	88.9	88.9	88.8	88.8	88.8	88.7	88.7	88.6	88.5
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	88.5	88.2	87.7	87.2	86.4	85.9	85.8	85.4	84.9	84.0	83.0	81.7	79.9	76.9	71.7	55.1	40.9	38.5	38.2	37.6
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	35.8	33.0	29.7	26.4	23.6	21.2	19.3	17.7	16.4	15.4	14.8	14.6	14.8	15.3	15.9	16.6	17.3	18.3	19.2	19.9
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	20.2	19.9	18.8	17.3	15.5	13.7	11.9	10.1	8.0	5.8	3.6	1.9	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0
λnm	5000																			
T	0.0																			



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