

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	0.8	9.6	30.5	52.0	66.6	74.8	79.3	81.9
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	83.7	84.8	85.7	86.5	87.2	87.7	88.1	88.4	88.6	88.6	88.6	88.3	87.5	86.1	83.9	80.6	76.1	70.4	63.6	55.8
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	47.6	39.4	31.6	24.6	18.7	13.8	9.9	7.2	5.0	3.5	2.5	1.7	1.3	0.9	0.7	0.5	0.4	0.3	0.3	0.2
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.1
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	1.2	1.4	1.6	1.8	2.1	2.4	2.7	3.0	3.4	3.8	4.3	5.3	6.5	7.9	9.5	11.3				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.506	1.499	1.495	1.492	1.491	1.490	1.490
K	3.3E-06	1.9E-06	2.9E-05	2.2E-04	6.0E-04	9.7E-04	1.2E-03
P	0.922	0.923	0.924	0.925	0.925	0.925	0.926

Classes of Bubbles and Inclusions

Bubble Class	0
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Color Specification

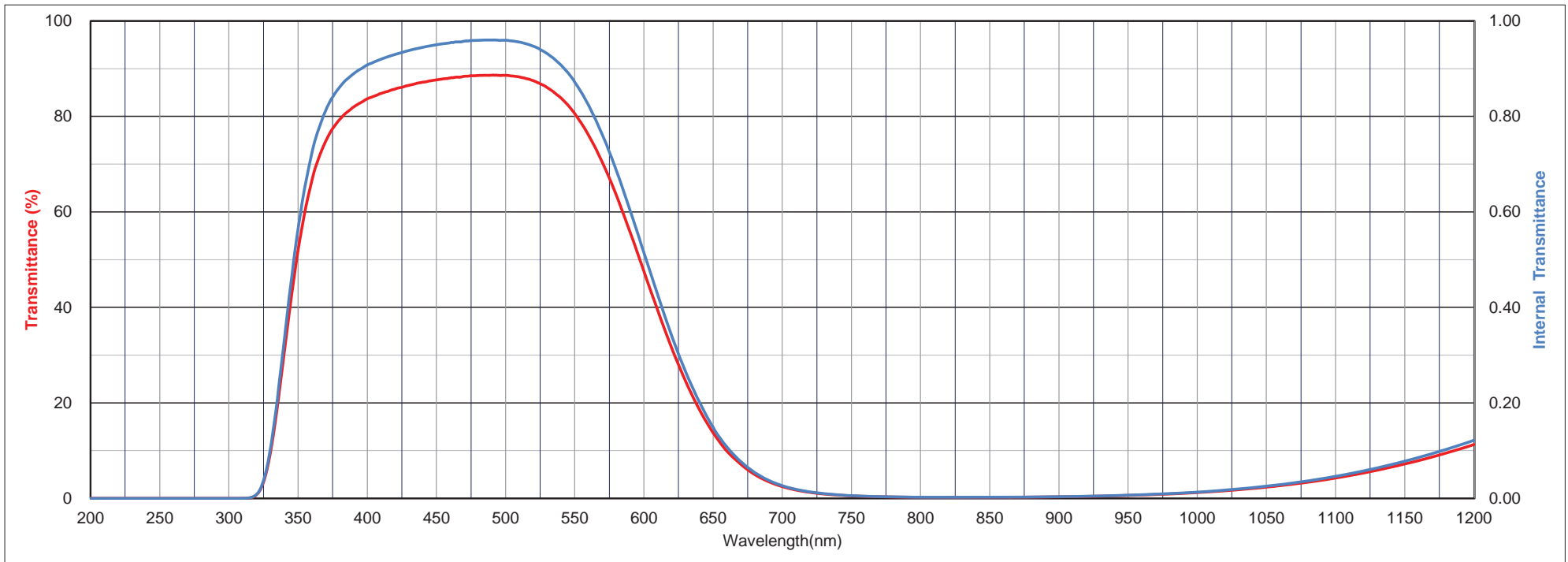
	x	y	Y	λ _d	P _e
A	0.357	0.430	63	499	21
C	0.248	0.304	70	489	24
D65	0.250	0.319	70	490	24

Properties

Chemical		Thermal				Mechanical		Others
D _W	D _A	T _g	T _s	α _{-30/70}	α _{100/300}	H _k	F _A	d
1	3	330	370	139	183	390	640	3.31

Tolerance of Transmittance (T)

Transmittance at 400nm	Transmittance at 500nm	Transmittance at 600nm
T400(%)	T500(%)	T600(%)
≥76	≥85	≥43



All data is mean values of various melts.

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



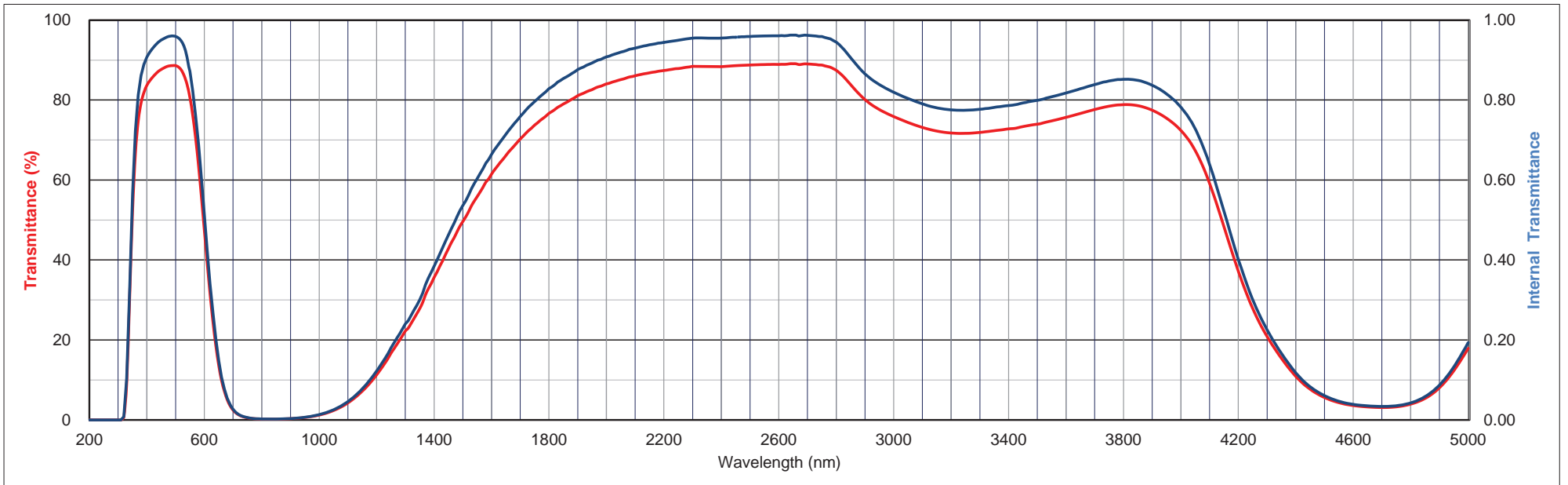
HOYA CANDEO OPTRONICS CORPORATION

Thickness 1.00 mm

CM5000

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	0.8	9.6	30.5	52.0	66.6	74.8	79.3	81.9
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	83.7	84.8	85.7	86.5	87.2	87.7	88.1	88.4	88.6	88.6	88.6	88.3	87.5	86.1	83.9	80.6	76.1	70.4	63.6	55.8
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	47.6	39.4	31.6	24.6	18.7	13.8	9.9	7.2	5.0	3.5	2.5	1.7	1.3	0.9	0.7	0.5	0.4	0.3	0.3	0.2
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.1
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	1.2	1.4	1.6	1.8	2.1	2.4	2.7	3.0	3.4	3.8	4.3	4.8	5.3	5.9	6.5	7.2	7.9	8.7	9.5	10.4
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	11.3	12.3	13.3	14.3	15.4	16.7	17.8	18.8	20.0	21.1	22.2	23.0	24.1	25.4	26.6	27.8	29.3	31.3	32.8	34.1
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	35.6	36.9	38.5	39.8	41.4	42.9	44.3	45.6	47.1	48.5	49.6	50.8	52.1	53.6	54.8	55.8	57.0	58.2	59.5	60.3
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	61.5	62.5	63.4	64.4	65.2	66.1	67.1	67.8	68.6	69.5	70.3	71.0	71.7	72.4	73.0	73.7	74.3	74.9	75.5	76.0
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	76.7	77.1	77.6	78.2	78.6	79.0	79.4	79.8	80.2	80.6	81.1	81.4	81.7	82.1	82.4	82.6	83.0	83.3	83.5	83.7
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	84.0	85.1	86.1	86.8	87.4	87.9	88.4	88.4	88.4	88.6	88.8	88.9	88.9	89.1	89.0	88.8	87.4	83.9	80.1	77.6
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	75.9	74.4	73.2	72.3	71.8	71.7	71.9	72.3	72.8	73.4	74.0	74.8	75.7	76.7	77.6	78.5	78.9	78.6	77.5	75.5
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	72.4	67.3	59.1	48.3	37.2	27.9	20.9	15.4	10.9	7.7	5.6	4.3	3.6	3.2	3.1	3.3	4.0	5.4	8.0	12.3
λnm	5000																			
T	17.9																			



All data is mean values of various melts.

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