

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	0.6	17.6	52.2	72.4	80.2	84.9	87.0	87.7	87.9	88.1	87.9	87.5	86.9	85.2	79.8	65.4	38.4
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	13.0	2.8	0.7	0.3	0.2	0.3	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	0.0	0.0	0.0	0.0	0.0	0.1	0.9	4.9	15.5	30.2	42.0	48.0	49.6	47.5	43.7	39.5	35.6	32.2	29.3	27.1
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	25.4	24.2	23.4	22.8	22.5	22.3	22.4	22.5	22.8	23.2	23.7	24.3	25.0	25.8	26.7	27.6	28.6	29.5	30.4	31.3
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	32.1	32.7	33.2	33.5	33.6	33.4	33.1	32.5	31.7	30.7	29.5	26.8	23.7	20.8	17.9	15.4				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.567	1.557	1.552	1.549	1.547	1.545	1.544
K	2.4E-05	2.6E-04	2.0E-04	1.8E-05	3.2E-05	4.1E-05	3.2E-05
P	0.907	0.909	0.911	0.911	0.912	0.912	0.912

Classes of Bubbles and Inclusions

Bubble Class
3

Color Specification

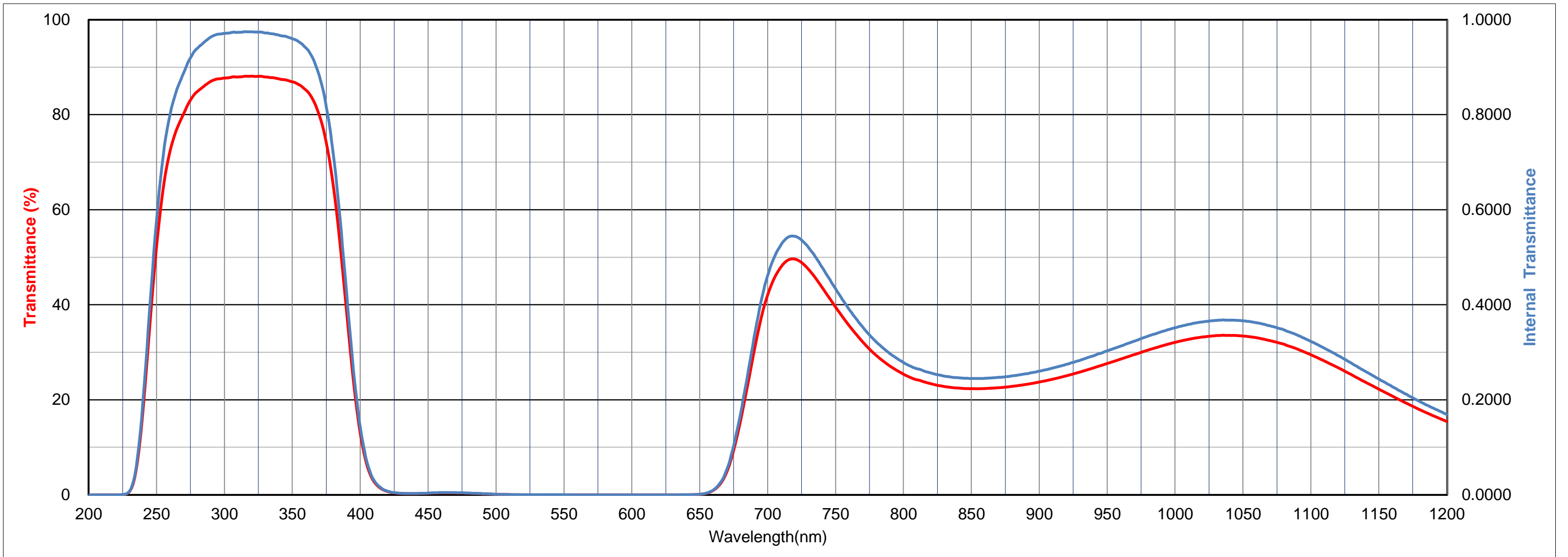
	x	y	Y	λ _d	P _e
A	-	-	-	-	-
C	-	-	-	-	-
D65	-	-	-	-	-

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	5	470	505	82	93	420	230	2.78

Tolerance of Transmittance (T)

Maximum Transmittance	Transmittance at 254nm	Transmittance at 405nm
T _{max} (%)	T ₂₅₄ (%)	T ₄₀₅ (%)
85±5	>40	<15





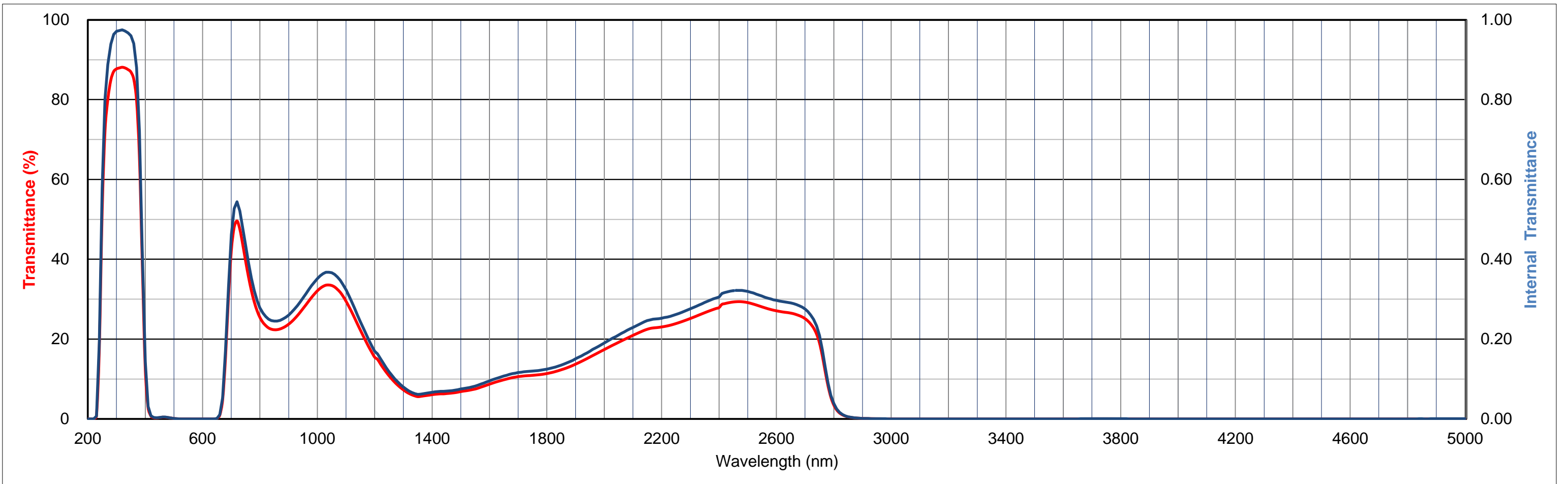
HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

U330

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	0.6	17.6	52.2	72.4	80.2	84.9	87.0	87.7	87.9	88.1	87.9	87.5	86.9	85.2	79.8	65.4	38.4
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	13.0	2.8	0.7	0.3	0.2	0.3	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	0.0	0.0	0.0	0.0	0.0	0.1	0.9	4.9	15.5	30.2	42.0	48.0	49.6	47.5	43.7	39.5	35.6	32.2	29.3	27.1
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	25.4	24.2	23.4	22.8	22.5	22.3	22.4	22.5	22.8	23.2	23.7	24.3	25.0	25.8	26.7	27.6	28.6	29.5	30.4	31.3
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	32.1	32.7	33.2	33.5	33.6	33.4	33.1	32.5	31.7	30.7	29.5	28.1	26.8	25.3	23.7	22.2	20.8	19.3	17.9	16.6
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	15.4	14.9	13.8	12.7	11.7	10.8	9.9	9.2	8.5	7.8	7.3	6.8	6.4	6.0	5.8	5.6	5.6	5.8	5.9	6.0
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	6.1	6.2	6.2	6.3	6.3	6.3	6.4	6.5	6.6	6.7	6.8	7.0	7.1	7.2	7.3	7.5	7.7	8.0	8.2	8.4
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	8.7	8.9	9.2	9.4	9.6	9.8	10.0	10.2	10.3	10.5	10.6	10.7	10.8	10.8	10.9	10.9	11.0	11.1	11.1	11.2
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	11.4	11.5	11.7	11.9	12.1	12.3	12.5	12.8	13.1	13.4	13.7	14.0	14.4	14.7	15.1	15.5	15.9	16.2	16.6	17.0
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	17.4	19.2	20.9	22.5	23.0	23.9	25.2	26.6	27.9	29.3	29.1	28.1	27.1	26.5	25.1	19.1	3.5	0.5	0.1	0.0
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
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	0.0	0.0	0.0
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
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	0.0	0.0	0.0
λnm	5000																			
T	0.0																			



All data is mean values of various melts.

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