

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	0.2	12.7	45.2	65.8	74.9	82.4	86.5	88.2	88.8	89.1	88.9	88.1	87.2	85.0	78.8	63.6	35.2
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	9.9	1.5	0.2	0.1	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	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	0.0	0.0	0.3	3.4	14.0	28.2	38.5	43.1	42.3	39.0	34.8	30.7	27.0	23.9	21.4
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	19.3	17.8	16.8	15.8	15.1	14.5	14.1	13.8	13.6	13.5	13.4	13.5	13.6	13.8	14.1	14.4	14.9	15.3	15.7	16.1
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	16.5	16.8	17.0	17.0	16.9	16.7	16.2	15.6	14.9	14.1	13.1	11.0	8.9	7.0	5.4	4.1				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.566	1.556	1.551	1.548	1.546	1.544	1.543
K	1.4E-05	9.9E-05	2.2E-04	9.5E-06	1.5E-05	2.0E-05	1.9E-05
P	0.907	0.910	0.911	0.912	0.912	0.912	0.913

Classes of Bubbles and Inclusions

Bubble Class
3

Color Specification

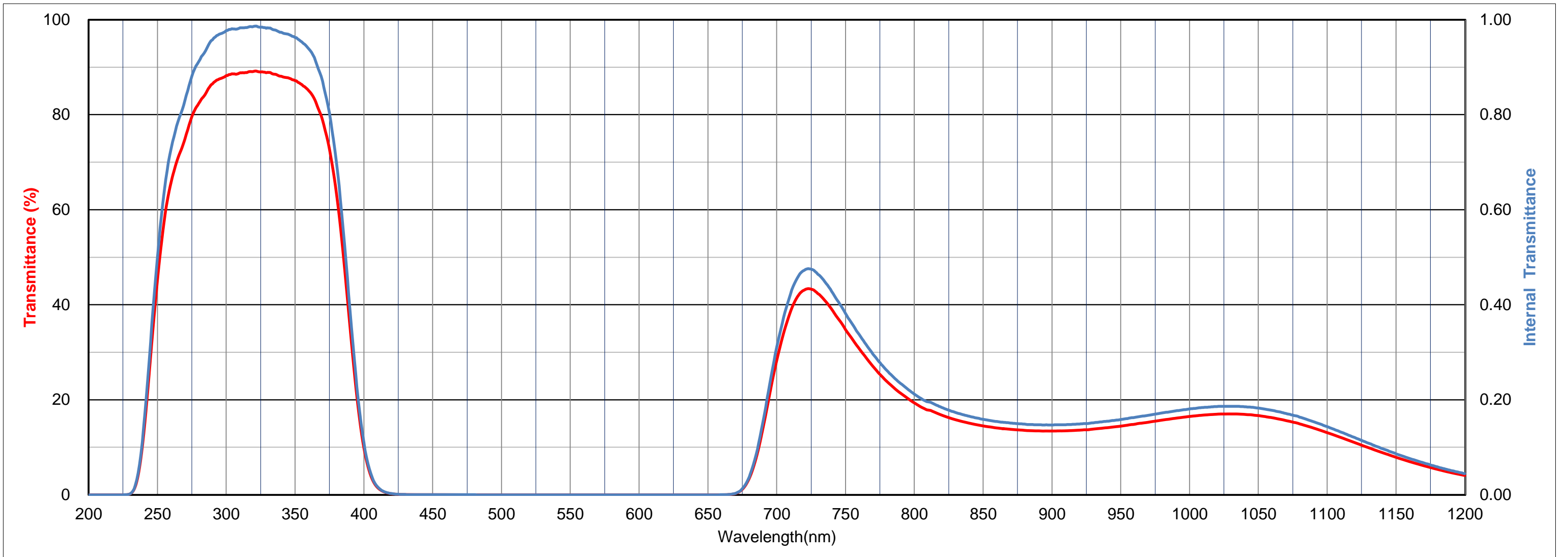
	x	y	Y	λ _d	P _e
A	-	-	-	-	-
C	-	-	-	-	-
D65	-	-	-	-	-

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	3	450	500	93	65	380	220	2.89

Tolerance of Transmittance (T)

Maximum Transmittance	Transmittance at 405nm
Tmax(%)	T405(%)
85±5	<10





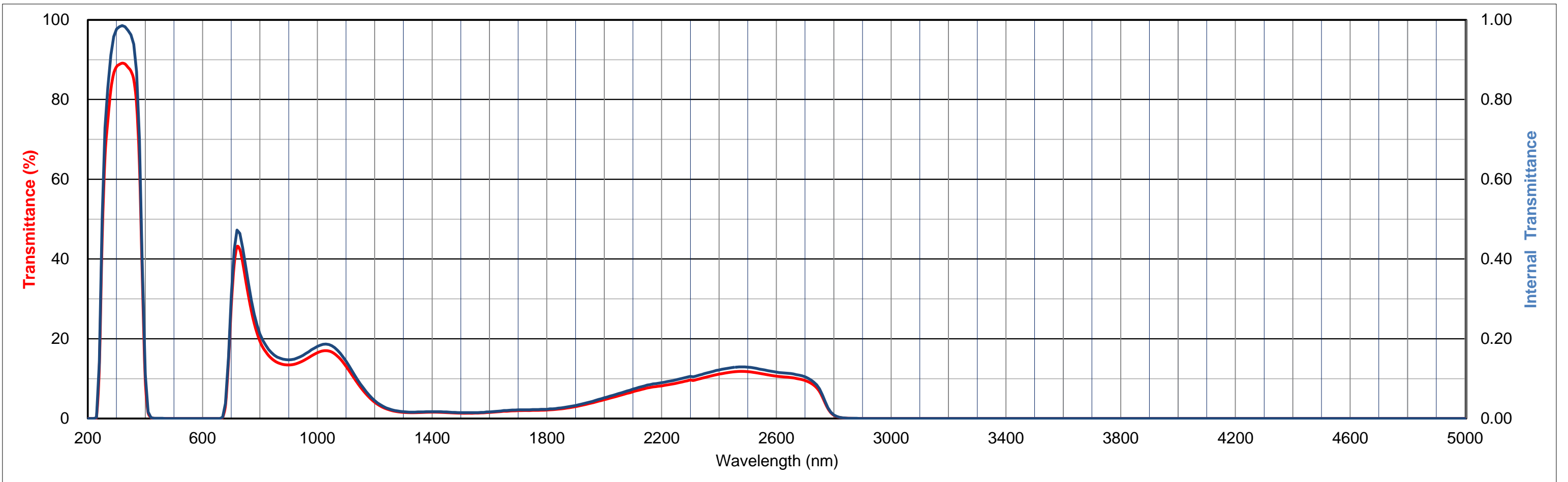
HOYA CANDEO OPTRONICS CORPORATION

Thickness 4.50 mm

U325B

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	0.2	12.7	45.2	65.8	74.9	82.4	86.5	88.2	88.8	89.1	88.9	88.1	87.2	85.0	78.8	63.6	35.2
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	9.9	1.5	0.2	0.1	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	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	0.0	0.0	0.3	3.4	14.0	28.2	38.5	43.1	42.3	39.0	34.8	30.7	27.0	23.9	21.4
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	19.3	17.8	16.8	15.8	15.1	14.5	14.1	13.8	13.6	13.5	13.4	13.5	13.6	13.8	14.1	14.4	14.9	15.3	15.7	16.1
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	16.5	16.8	17.0	17.0	16.9	16.7	16.2	15.6	14.9	14.1	13.1	12.1	11.0	9.9	8.9	7.9	7.0	6.1	5.4	4.7
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	4.1	3.6	3.1	2.7	2.4	2.2	2.0	1.8	1.7	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.5
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	2.1	2.2	2.2	2.3	2.4	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.3	3.4	3.6	3.8	3.9	4.1	4.3	4.5
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	4.7	5.7	6.7	7.7	8.2	8.8	9.6	10.3	11.1	11.7	11.7	11.2	10.6	10.3	9.5	6.8	0.8	0.1	0.0	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