

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	0.0	0.0	0.0
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
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	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	0.0	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	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	0.0	0.2	1.3	7.2	24.2	48.8	67.1	76.9	81.9	84.6	86.0	86.8	87.4	87.8	88.0	88.3	88.4	88.6	88.7	88.9
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	89.0	89.1	89.3	89.4	89.4	89.5	89.6	89.7	89.8	89.8	89.9	90.0	90.1	90.2	90.3	90.4				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.589	1.578	1.572	1.566	1.563	1.560	1.559
K	7.1E-03	5.5E-03	2.5E-03	2.8E-04	2.7E-04	3.6E-07	5.5E-12
P	0.902	0.904	0.906	0.907	0.908	0.909	0.909

Classes of Bubbles and Inclusions

Bubble Class
3

Color Specification

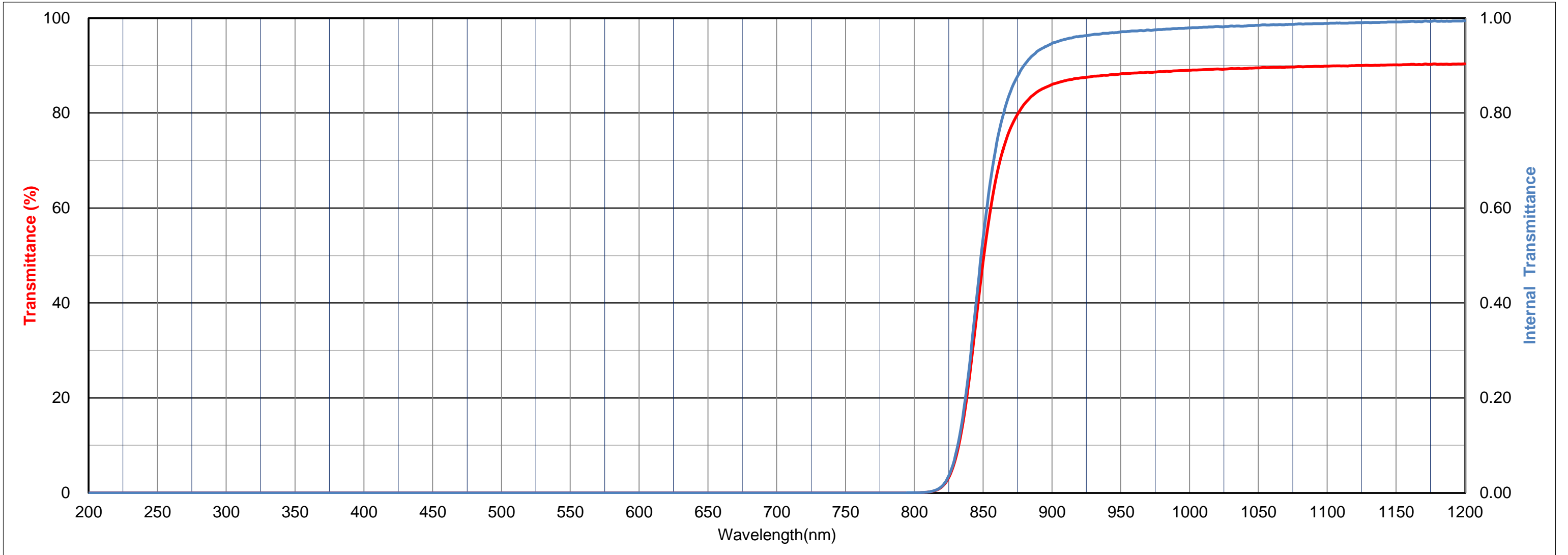
	x	y	Y	λ <sub>d</sub>	P <sub>e</sub>
A	-	-	-	-	-
C	-	-	-	-	-
D65	-	-	-	-	-

Properties

Chemical		Thermal				Mechanical		Others
D <sub>w</sub>	D <sub>A</sub>	T <sub>g</sub>	T <sub>s</sub>	α <sub>-30/70</sub>	α <sub>100/300</sub>	H <sub>K</sub>	F <sub>A</sub>	d
1	4	490	535	92	102	500	150	3.02

Tolerance of Transmittance (T)

λτ (nm)	Δλ (nm)
850±10	<60





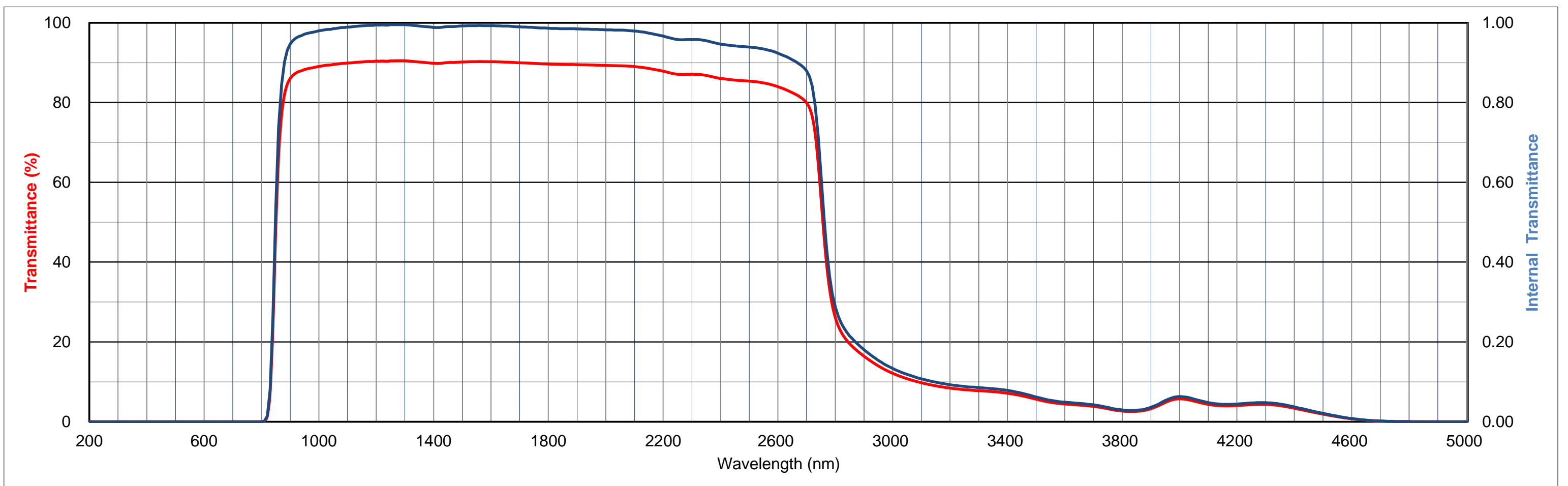
HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

IR85N

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	0.0	0.0	0.0
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
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	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	0.0	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	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	0.0	0.2	1.3	7.2	24.2	48.8	67.1	76.9	81.9	84.6	86.0	86.8	87.4	87.8	88.0	88.3	88.4	88.6	88.7	88.9
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	89.0	89.1	89.3	89.4	89.4	89.5	89.6	89.7	89.8	89.8	89.9	89.9	90.0	90.1	90.1	90.2	90.2	90.3	90.3	90.3
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	90.4	90.3	90.4	90.4	90.3	90.4	90.4	90.5	90.5	90.5	90.5	90.4	90.3	90.3	90.2	90.1	90.1	90.0	89.9	89.9
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	89.8	89.8	89.8	89.9	90.0	90.0	90.0	90.0	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.3	90.2	90.2	90.2
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	90.2	90.2	90.2	90.2	90.1	90.1	90.1	90.1	90.0	90.0	90.0	89.9	89.9	89.9	89.8	89.8	89.8	89.7	89.7	89.7
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	89.6	89.6	89.6	89.6	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.4	89.4	89.4	89.4	89.4	89.4	89.3	89.3
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	89.3	89.2	89.0	88.5	87.8	87.1	87.1	86.8	86.0	85.6	85.4	84.9	84.0	82.5	79.9	56.2	26.1	19.6	16.4	14.0
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	12.1	10.8	9.8	9.0	8.4	8.0	7.8	7.5	7.1	6.5	5.6	4.9	4.4	4.2	3.8	3.3	2.7	2.6	3.3	4.8
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	5.7	5.2	4.3	4.0	4.0	4.3	4.3	4.0	3.4	2.6	1.9	1.3	0.7	0.4	0.2	0.1	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