

# DATA SHEET

# HOYA CM500

**HOYA**  
HOYA CANDEO OPTRONICS CORPORATION

Thickness 1.00 mm

CM500

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	<1E-6	<1E-6	<1E-6	<1E-6	<1E-6	<1E-6	<1E-6	<1E-6	<1E-6	0.00	0.00	0.03	1.68	14.93	38.69	57.39	68.21	73.95	77.47	79.88
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	81.76	83.23	84.45	85.49	86.40	87.04	87.69	88.16	88.56	88.77	88.92	88.84	88.35	87.35	85.56	82.84	78.65	73.07	66.05	57.61
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	48.42	38.98	29.97	22.03	15.39	10.22	6.39	3.90	2.24	1.23	0.65	0.34	0.17	0.08	0.04	0.02	0.01	0.01	3.57E-03	2.14E-03
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	1.38E-03	9.33E-04	6.75E-04	5.13E-04	4.19E-04	3.42E-04	2.92E-04	2.73E-04	2.73E-04	3.02E-04	3.01E-04	3.35E-04	3.74E-04	4.55E-04	5.35E-04	6.36E-04	7.82E-04	9.44E-04	1.19E-03	1.49E-03
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	1.90E-03	2.42E-03	3.12E-03	4.00E-03	5.15E-03	6.62E-03	8.50E-03	1.08E-02	1.37E-02	1.75E-02	2.21E-02	3.54E-02	5.61E-02	8.61E-02	1.23E-01	1.89E-01				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.554	1.544	1.539	1.536	1.534	1.533	1.532
K	3.0E-06	1.1E-06	3.2E-05	2.8E-04	7.8E-04	1.2E-03	1.3E-03
P	0.910	0.913	0.914	0.915	0.915	0.915	0.915

Classes of Bubbles and Inclusions

Bubble Class	0
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Color Specification

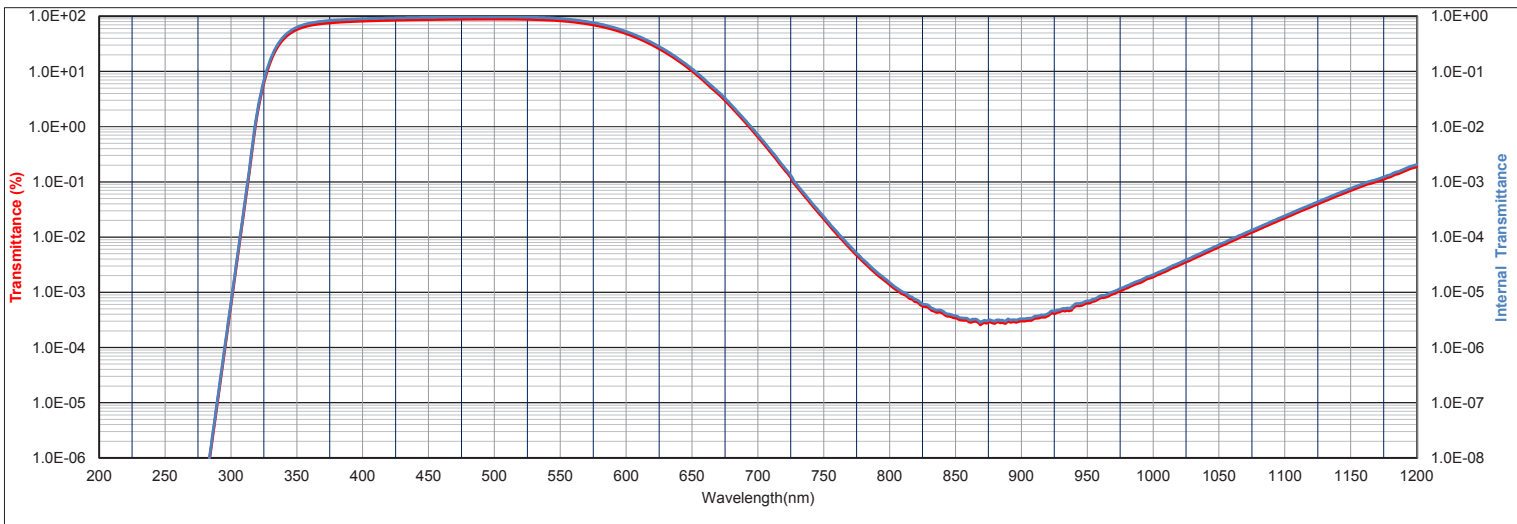
	x	y	Y	λ <sub>s</sub>	P <sub>s</sub>
A	0.355	0.435	64	500	21
C	0.248	0.308	71	489	24
D65	0.250	0.323	72	490	23

Properties

Chemical		Thermal				Mechanical		Others
D <sub>w</sub>	D <sub>A</sub>	T <sub>g</sub>	T <sub>s</sub>	α -30/70	α 100/300	H <sub>k</sub>	F <sub>A</sub>	d
4	4	390	430	124	-	500	180	2.60

Tolerance of Transmittance (T)

Transmittance at 400nm	Transmittance at 500nm	Transmittance at 600nm
T400(%)	T500(%)	T600(%)
≥80	≥88	≤50



All data is mean values of various melts.

The content of this catalog is accurate as of April ,2017

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