

DATA SHEET

HOYA E-CM500S

HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness 1.00 mm

E-CM500S

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	0.13	4.41	23.09	46.92	62.93	71.74	76.62	79.55	81.56
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	83.08	84.38	85.35	86.23	86.95	87.51	87.98	88.44	88.73	88.97	89.04	88.89	88.44	87.53	85.95	83.50	79.91	75.16	69.09	61.88
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	53.77	45.35	36.96	29.21	22.30	16.47	11.69	8.22	5.54	3.65	2.35	1.50	0.95	0.60	0.39	0.25	0.16	0.11	0.08	0.05
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	0.04	0.03	0.03	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	0.06	0.08	0.09	0.11	0.13	0.15	0.18	0.21	0.25	0.30	0.35	0.48	0.66	0.88	1.17	1.54				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.550	1.541	1.536	1.533	1.531	1.530	1.529
K	3.0E-06	1.0E-06	2.6E-05	2.4E-04	6.8E-04	1.0E-03	1.2E-03
P	0.911	0.913	0.915	0.915	0.916	0.916	0.916

Classes of Bubbles and Inclusions

Bubble Class	0
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Color Specification

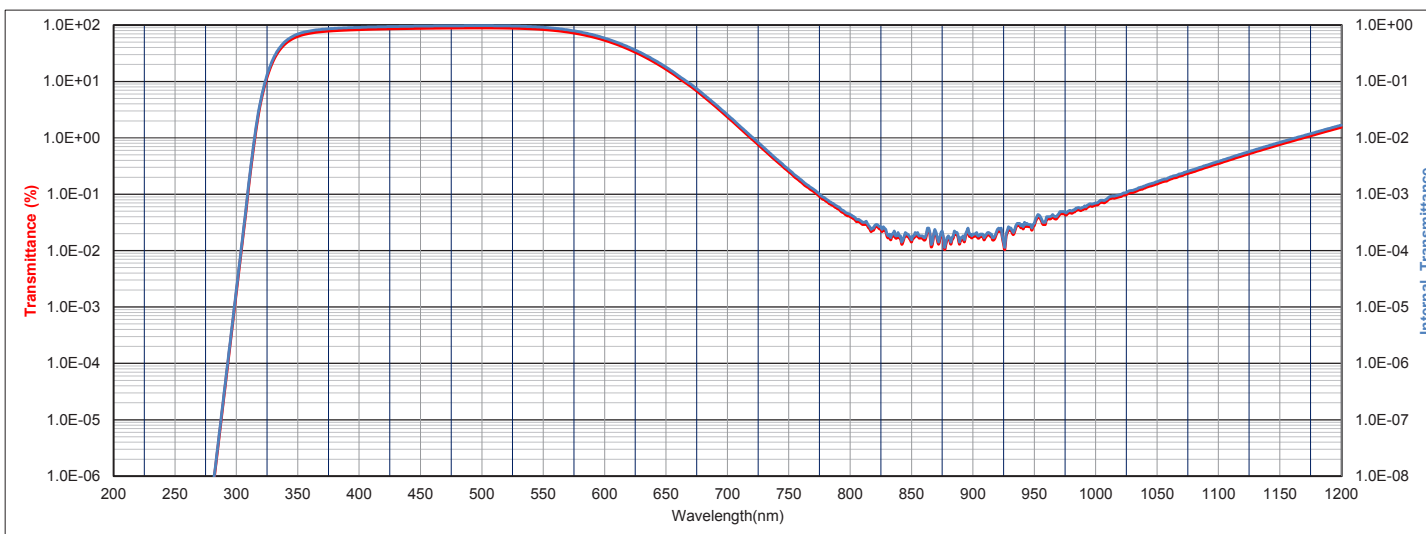
	x	y	Y	λ _c	P _s
A	0.369	0.431	67	500	18
C	0.256	0.309	73	489	21
D65	0.258	0.323	74	490	20

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	2	425	470	83	110	420	150	2.59

Tolerance of Transmittance (T)

Transmittance at 400nm	Transmittance at 500nm	Transmittance at 600nm
T400(%)	T500(%)	T600(%)
≥80	≥88	≥55



All data is mean values of various melts.

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

UQG OPTICS MAKES EVERY EFFORT TO VERIFY 3RD PARTY TECHNICAL DATA BUT ACCEPTS NO RESPONSIBILITY FOR ACCURACY