

# DATA SHEET

# HOYA® RM100

**HOYA**

HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

RM100

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	0.1	0.1
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	0.2	0.4	0.8	1.3	2.1	3.3	4.9	6.9	9.2	12.1	15.4	19.0	22.9	26.9	31.0	35.0	38.8	42.7	46.4	49.8
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	53.1	56.2	59.0	61.6	63.8	66.0	68.0	69.7	71.2	72.6	73.8	75.9	77.4	78.6	79.4	80.0				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.650	1.630	1.620	1.614	1.610	1.607	1.605
K	2.6E-03	2.9E-03	1.7E-03	5.9E-04	1.9E-04	6.1E-05	2.2E-05
P	0.887	0.892	0.894	0.895	0.896	0.897	0.898

Classes of Bubbles and Inclusions

Bubble Class
3

Color Specification

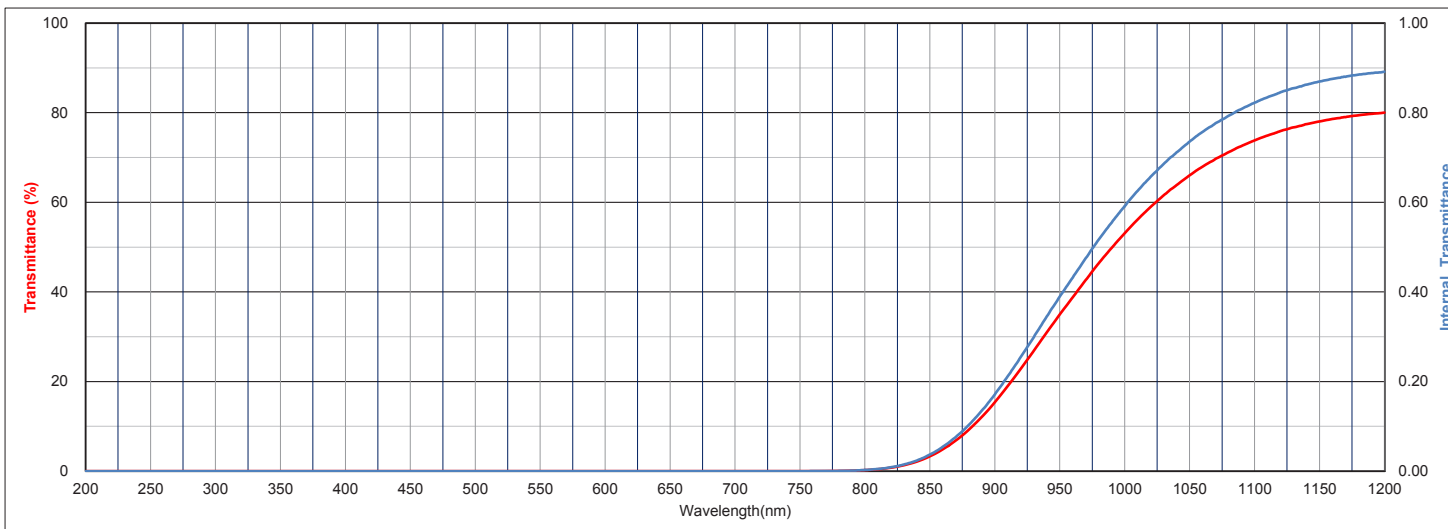
	x	y	Y	λ <sub>d</sub>	P <sub>e</sub>
A	-	-	-	-	-
C	-	-	-	-	-
D65	-	-	-	-	-

Properties

Chemical		Thermal				Mechanical		Others
D <sub>w</sub>	D <sub>k</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>k</sub>	d
3	4	450	490	98	115	460	180	3.23

Tolerance of Transmittance (T)

Wavelength for less than 5% Transmittance	Transmittance at 1200nm
λ5(nm)	T1200(%)
>850	80±5



All data is mean values of various melts.

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

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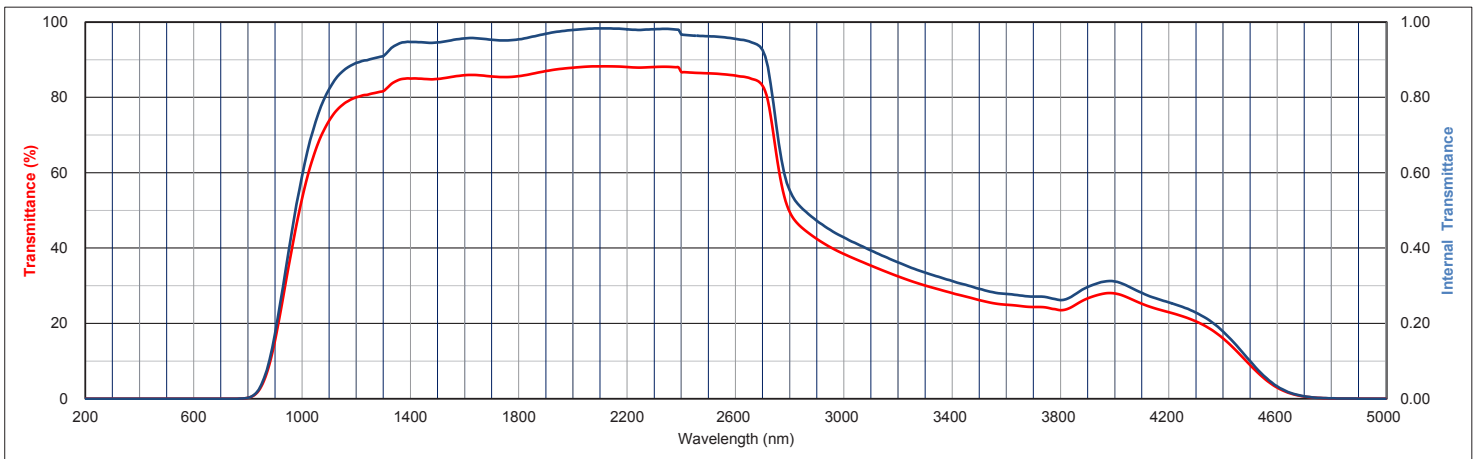
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Transmittance (T)		units: %																		
λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	400	410	420	430	440	450	460	470	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	0.1	0.1
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	0.2	0.4	0.8	1.3	2.1	3.3	4.9	6.9	9.2	12.1	15.4	19.0	22.9	26.9	31.0	35.0	38.8	42.7	46.4	49.8
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	53.1	56.2	59.0	61.6	63.8	66.0	68.0	69.7	71.2	72.6	73.8	74.9	75.9	76.7	77.4	78.0	78.6	79.0	79.4	79.7
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	80.0	80.2	80.4	80.6	80.7	80.9	81.1	81.2	81.4	81.5	81.6	82.2	82.9	83.6	84.1	84.4	84.7	84.9	85.0	85.1
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	85.0	85.0	85.0	85.0	85.0	84.9	84.9	84.8	84.8	84.9	84.9	85.0	85.1	85.2	85.3	85.4	85.5	85.7	85.7	85.8
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	85.9	85.9	86.0	86.0	86.0	85.9	85.8	85.8	85.7	85.6	85.6	85.5	85.5	85.4	85.4	85.4	85.4	85.4	85.5	85.6
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	85.6	85.7	85.9	86.0	86.1	86.3	86.4	86.6	86.7	86.8	87.0	87.1	87.2	87.3	87.4	87.5	87.6	87.7	87.8	87.8
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	87.9	88.2	88.2	88.2	88.1	87.9	88.1	88.1	86.8	86.5	86.4	86.2	85.8	85.2	83.1	65.4	49.6	45.1	42.4	40.2
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	38.4	36.9	35.3	33.9	32.5	31.2	30.1	29.0	28.0	27.1	26.2	25.4	25.0	24.6	24.3	24.2	23.5	24.7	26.6	27.8
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	28.0	26.8	25.2	24.0	23.0	21.9	20.5	18.6	16.0	12.7	8.9	5.5	2.9	1.4	0.6	0.2	0.1	0.0	0.0	0.0
λnm	5000																			
T	0.0																			



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