

DATA SHEET

HOYA® R-72

HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

R72

Transmittance (T)		units: %																		
λ_{nm}	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
λ_{nm}	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
λ_{nm}	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	1.8	22.6	57.8	76.6	83.2	85.5	86.4	86.9	87.2	87.3
λ_{nm}	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	87.5	87.7	87.9	88.0	88.1	88.2	88.3	88.4	88.5	88.6	88.7	88.9	88.9	89.0	89.1	89.2	89.2	89.3	89.4	89.4
λ_{nm}	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	89.4	89.5	89.5	89.7	89.6	89.7	89.6	89.7	89.8	89.7	89.8	89.8	89.9	90.0	90.0	90.0				

Refractive Index/Absorption coefficient/Reflection coefficient

λ_{nm}	400	500	600	700	800	900	1000
n	1.565	1.554	1.547	1.543	1.540	1.538	1.537
K	4.2E-03	1.8E-03	1.1E-04	9.3E-05	1.2E-09	1.6E-16	5.5E-24
P	0.907	0.910	0.912	0.913	0.914	0.914	0.914

Classes of Bubbles and Inclusions

Bubble Class	3
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Color Specification

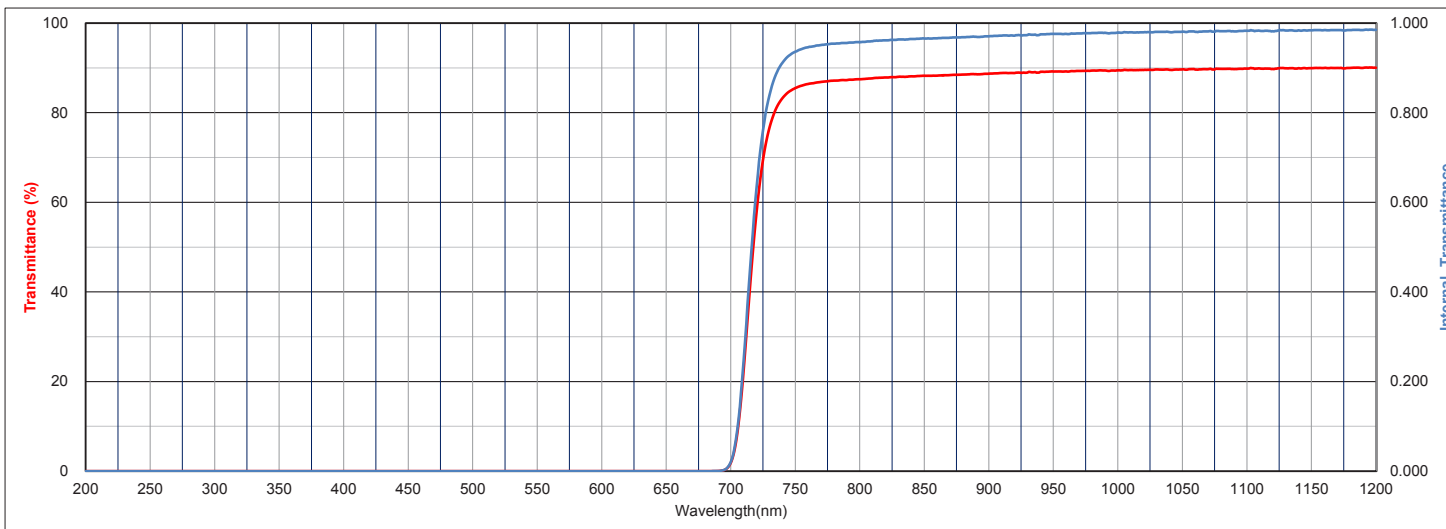
	x	y	Y	λ_d	P_e
A	-	-	-	-	-
C	-	-	-	-	-
D65	-	-	-	-	-

Properties

Chemical		Thermal				Mechanical		Others
D_w	D_k	Tg	Ts	$\alpha_{-30/70}$	$\alpha_{100/300}$	H_k	F_k	d
1	3	525	575	100	116	470	160	2.86

Tolerance of Transmittance (t)

λt (nm)	$\Delta \lambda$ (nm)	TH (%)
720±10	<45	>85



All data is mean values of various melts.

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

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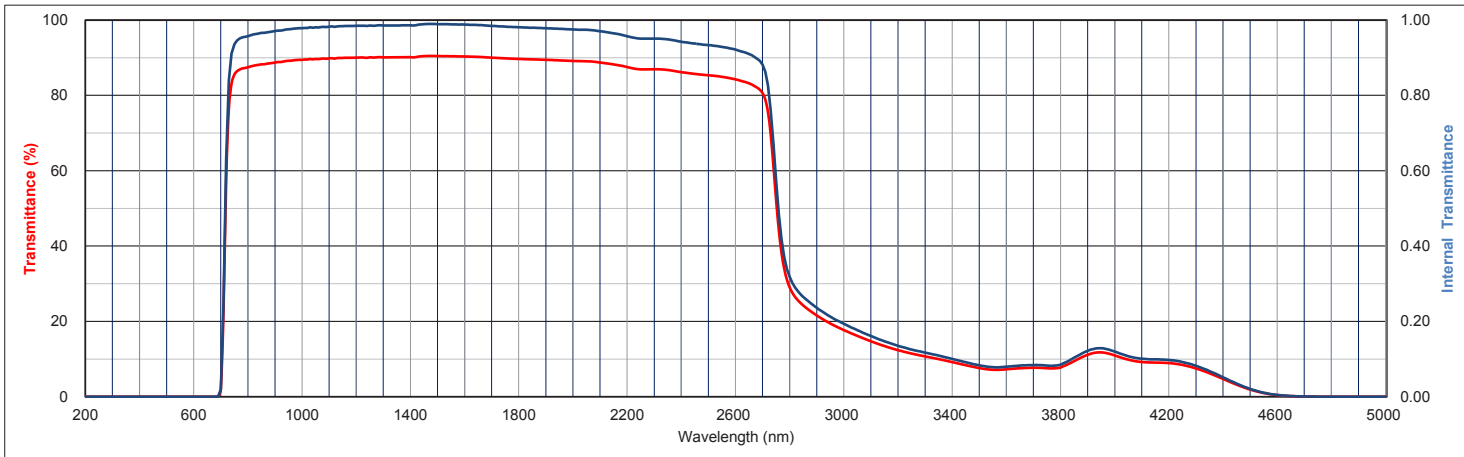
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Transmittance (T)	units: %																				
λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
λnm	400	410	420	430	440	450	460	470	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	1.8	22.6	57.8	76.6	83.2	85.5	86.4	86.9	87.2	87.3	87.3	
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	
T	87.5	87.7	87.9	88.0	88.1	88.2	88.3	88.4	88.5	88.6	88.7	88.9	88.9	89.0	89.1	89.2	89.2	89.3	89.4	89.4	
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190	
T	89.4	89.5	89.5	89.7	89.6	89.7	89.6	89.7	89.8	89.7	89.8	89.9	89.8	89.9	89.9	89.9	90.0	90.0	90.0	90.0	
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390	
T	90.0	90.0	90.1	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590	
T	90.2	90.1	90.2	90.3	90.4	90.4	90.5	90.5	90.5	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.3	90.3	
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790	
T	90.3	90.3	90.3	90.3	90.2	90.2	90.2	90.2	90.1	90.1	90.0	90.0	89.9	89.9	89.9	89.8	89.8	89.8	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	89.7	89.7	89.6	89.6	89.6	89.6	89.5	89.5	89.5	89.5	89.5	89.4	89.4	89.3	89.3	89.3	89.3	89.2	89.2	89.2	
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	
T	89.1	89.1	88.7	88.2	87.5	86.9	86.9	86.7	86.2	85.7	85.3	84.9	84.3	83.2	80.6	52.3	29.1	24.2	21.6	19.4	
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950	
T	17.7	16.1	14.7	13.4	12.4	11.5	10.7	10.0	9.2	8.4	7.6	7.2	7.3	7.6	7.7	7.6	7.7	9.4	11.1	11.8	
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950	
T	11.0	9.8	9.2	9.1	8.9	8.4	7.5	6.2	4.7	3.2	1.9	1.0	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	
λnm	5000																				
T	0.0																				



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