

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	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	#####	1.37E-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
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

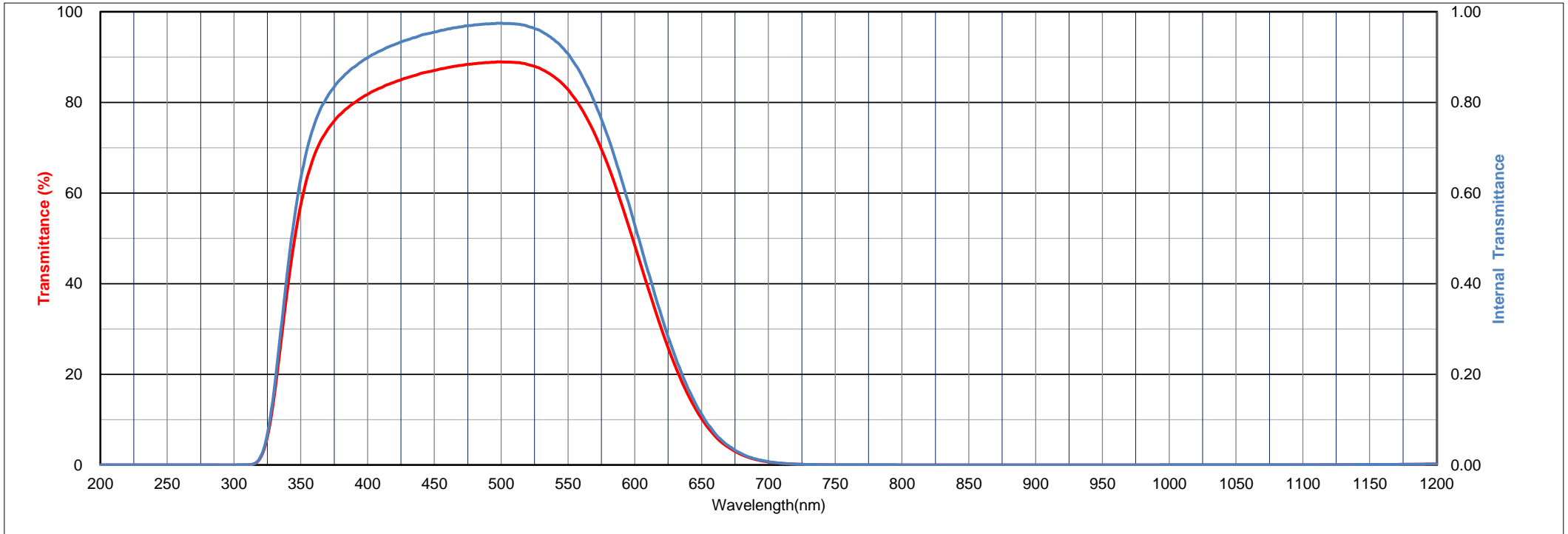
	x	y	Y	λ _d	P _e
A	0.355	0.435	64	500	21
C	0.248	0.308	71	489	24
D65	0.250	0.323	72	490	23

Properties

Chemical		Thermal				Mechanical		Others
D _w	D _A	T _g	T _s	α	α	H _k	F _A	d
4	4	390	430	-30/70	100/300	500	180	2.60

Tolerance of Transmittance (T)

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



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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	3.6E-03	2.1E-03
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	1.4E-03	9.3E-04	6.7E-04	5.1E-04	4.2E-04	3.4E-04	2.9E-04	2.7E-04	2.7E-04	3.0E-04	3.0E-04	3.4E-04	3.7E-04	4.5E-04	5.3E-04	6.4E-04	7.8E-04	9.4E-04	1.2E-03	1.5E-03
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	1.9E-03	2.4E-03	3.1E-03	4.0E-03	5.2E-03	6.6E-03	8.5E-03	1.1E-02	1.4E-02	1.8E-02	2.2E-02	2.8E-02	3.5E-02	4.5E-02	5.6E-02	7.0E-02	8.6E-02	1.0E-01	1.2E-01	1.5E-01
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	1.9E-01	0.23	0.29	0.35	0.42	0.51	0.62	0.75	0.89	1.05	1.24	1.37	1.26	1.05	1.50	1.67	2.60	3.01	3.38	4.37
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	4.96	5.29	6.21	7.00	7.95	8.83	9.94	10.78	11.84	12.98	14.10	15.38	16.51	17.82	19.20	20.39	21.81	23.22	24.68	26.17
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	27.65	28.99	30.43	31.88	33.42	34.85	36.40	37.88	39.30	40.74	42.19	43.53	45.09	46.36	47.79	48.97	50.36	51.63	52.83	53.95
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	55.22	56.43	57.46	58.45	59.57	60.56	61.63	62.62	63.44	64.37	65.29	66.09	66.86	67.69	68.43	69.12	69.91	70.54	71.22	71.89
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	72.42	75.11	77.37	79.12	80.06	80.73	81.58	81.63	81.64	81.95	81.78	81.01	80.14	79.44	78.35	75.34	59.18	41.37	31.99	26.11
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	21.70	18.11	15.19	12.84	11.02	9.70	8.83	8.36	8.21	8.37	8.84	9.59	10.60	11.74	12.46	11.95	10.14	7.95	5.86	3.67
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	2.09	1.24	0.73	0.44	0.32	0.30	0.39	0.67	1.06	1.33	1.57	1.91	2.41	3.05	3.80	4.49	5.06	5.58	6.08	6.43
λnm	5000																			
T	6.39																			

