

**Internal Transmittance ( $\tau$ )**

$\lambda$ nm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
$\tau$	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05
$\lambda$ nm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
$\tau$	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05
$\lambda$ nm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
$\tau$	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	0.001	0.007	0.047	0.193
$\lambda$ nm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
$\tau$	0.460	0.702	0.842	0.911	0.942	0.956	0.962	0.967	0.968	0.970	0.972	0.973	0.975	0.975	0.977	0.978	0.979	0.980	0.981	0.981
$\lambda$ nm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
$\tau$	0.982	0.983	0.981	0.983	0.983	0.984	0.984	0.985	0.985	0.985	0.986	0.987	0.987	0.988	0.988	0.988				

**Refractive Index/Absorption coefficient/Reflection coefficient**

$\lambda$ nm	400	500	600	700	800	900	1000
n	1.590	1.576	1.570	1.565	1.562	1.560	1.559
K	2.3E-03	1.7E-03	1.1E-03	4.1E-04	1.8E-05	6.0E-07	3.0E-07
P	0.901	0.905	0.906	0.907	0.908	0.909	0.909

**Classes of Bubbles and Inclusions**

Bubble Class
3

**Color Specification**

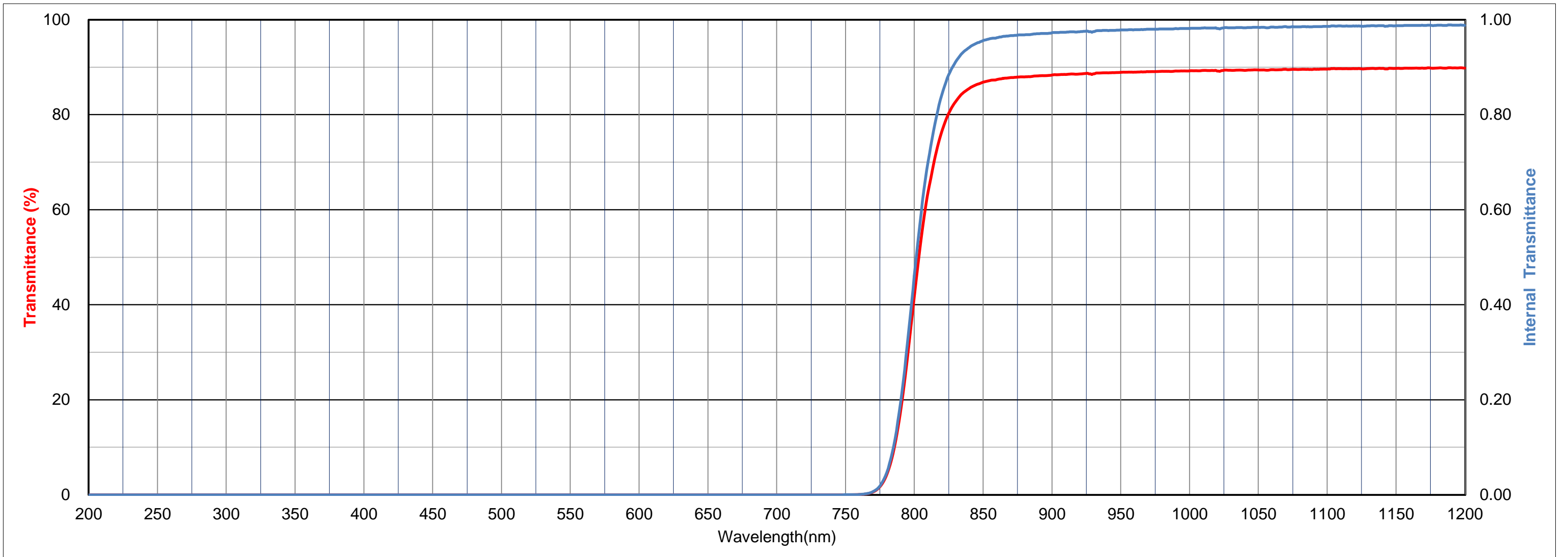
	x	y	Y	$\lambda_d$	$P_e$
A	-	-	-	-	-
C	-	-	-	-	-
D65	-	-	-	-	-

**Properties**

Chemical		Thermal				Mechanical		Others
$D_w$	$D_A$	Tg	Ts	$\alpha_{-30/70}$	$\alpha_{100/300}$	$H_K$	$F_A$	d
4	5	555	610	0	102	425	190	3.01

**Tolerance of Transmittance ( $\tau$ )**

$\lambda\tau$ (nm)	$\lambda L$ (nm)	$\lambda H$ (nm)
800±8	<710	>920



Internal Transmittance ( $\tau$ )

$\lambda$ nm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
$\tau$	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05
$\lambda$ nm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
$\tau$	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05
$\lambda$ nm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
$\tau$	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	<1E-05	0.001	0.007	0.047	0.193
$\lambda$ nm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
$\tau$	0.460	0.702	0.842	0.911	0.942	0.956	0.962	0.967	0.968	0.970	0.972	0.973	0.975	0.975	0.977	0.978	0.979	0.980	0.981	0.981
$\lambda$ nm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
$\tau$	0.982	0.983	0.981	0.983	0.983	0.984	0.984	0.985	0.985	0.985	0.986	0.987	0.987	0.987	0.987	0.988	0.988	0.988	0.988	0.989
$\lambda$ nm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
$\tau$	0.988	0.989	0.989	0.989	0.990	0.990	0.992	0.992	0.992	0.992	0.993	0.993	0.994	0.994	0.994	0.994	0.994	0.994	0.995	0.995
$\lambda$ nm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
$\tau$	0.994	0.993	0.993	0.993	0.994	0.994	0.995	0.995	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.997	0.996	0.996	0.996	0.996
$\lambda$ nm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
$\tau$	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.995	0.995	0.995	0.995	0.994	0.994	0.994	0.994	0.994	0.993	0.993	0.993	0.993
$\lambda$ nm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
$\tau$	0.992	0.992	0.992	0.992	0.991	0.992	0.991	0.991	0.992	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.990	0.990	0.990	0.990
$\lambda$ nm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
$\tau$	0.990	0.990	0.987	0.982	0.975	0.967	0.966	0.963	0.954	0.950	0.948	0.943	0.932	0.918	0.893	0.651	0.300	0.227	0.192	0.164
$\lambda$ nm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
$\tau$	0.142	0.126	0.113	0.103	0.096	0.090	0.085	0.081	0.074	0.065	0.054	0.045	0.040	0.038	0.035	0.029	0.023	0.023	0.030	0.045
$\lambda$ nm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
$\tau$	0.052	0.044	0.037	0.034	0.035	0.037	0.037	0.034	0.027	0.020	0.013	0.008	0.004	0.002	0.001	0.001	<1E-05	<1E-05	<1E-05	<1E-05
$\lambda$ nm	5000																			
$\tau$	<1E-05																			

