

**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	0.001	0.004	0.046	0.229	0.532	0.765	0.884	0.934
$\lambda$ nm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	
$\tau$	0.956	0.965	0.969	0.971	0.973	0.974	0.975	0.976	0.976	0.977	0.978	0.980	0.980	0.980	0.983	0.983	0.983	0.984	0.985	0.986	
$\lambda$ nm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200					
$\tau$	0.985	0.986	0.984	0.987	0.986	0.987	0.988	0.988	0.988	0.988	0.988	0.989	0.991	0.990	0.991	0.990					

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

$\lambda$ nm	400	500	600	700	800	900	1000
n	1.584	1.572	1.566	1.561	1.559	1.557	1.555
K	2.3E-03	1.7E-03	9.4E-04	2.2E-04	8.7E-07	3.7E-07	1.8E-07
P	0.903	0.906	0.907	0.908	0.909	0.909	0.910

**Classes of Bubbles and Inclusions**

Bubble Class
3

**Color Specification**

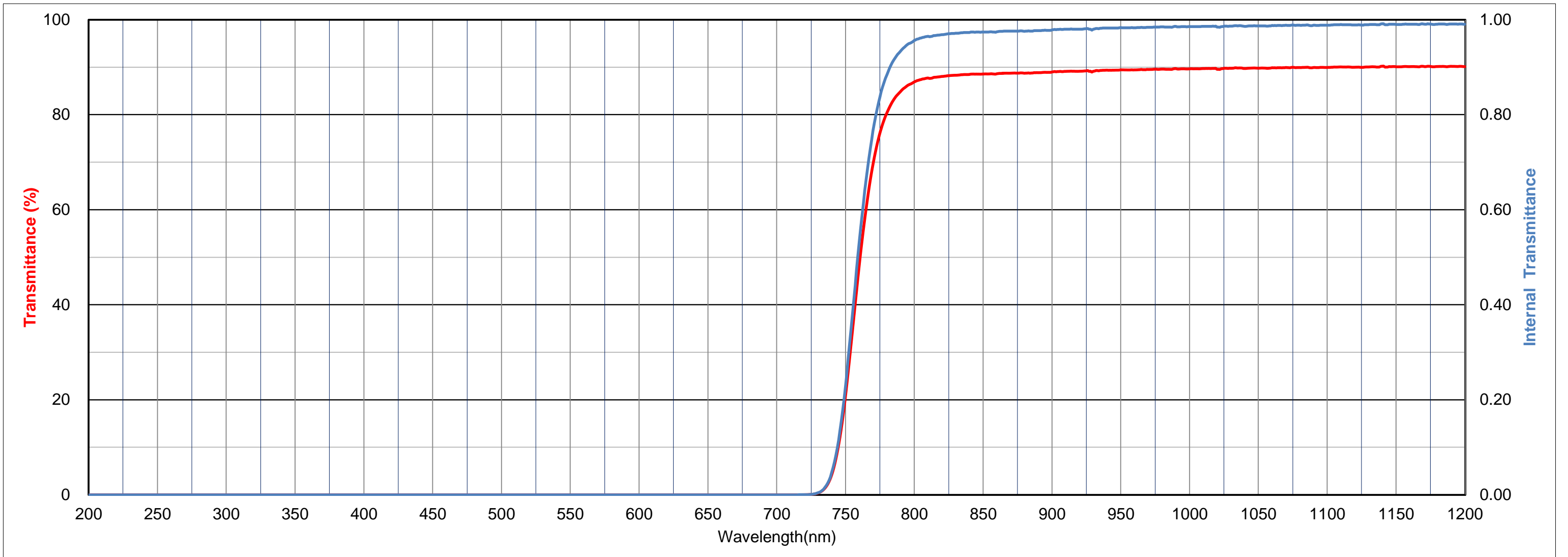
	x	y	Y	$\lambda_d$	$P_e$
A	-	-	-	-	-
C	-	-	-	-	-
D65	-	-	-	-	-

**Properties**

Chemical		Thermal				Mechanical		Others
$D_w$	$D_A$	$T_g$	$T_s$	$\alpha_{-30/70}$	$\alpha_{100/300}$	$H_K$	$F_A$	d
4	5	550	605	0	108	415	200	2.97

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

$\lambda\tau$ (nm)	$\lambda L$ (nm)	$\lambda H$ (nm)
760±8	<680	>880



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	0.001	0.004	0.046	0.229	0.532	0.765	0.884	0.934
$\lambda$ nm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	
$\tau$	0.956	0.965	0.969	0.971	0.973	0.974	0.975	0.976	0.976	0.977	0.978	0.980	0.980	0.980	0.983	0.983	0.983	0.984	0.985	0.986	
$\lambda$ nm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190	
$\tau$	0.985	0.986	0.984	0.987	0.986	0.987	0.988	0.988	0.988	0.988	0.988	0.990	0.989	0.990	0.991	0.990	0.990	0.991	0.991	0.991	
$\lambda$ nm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390	
$\tau$	0.990	0.990	0.991	0.991	0.992	0.992	0.993	0.993	0.994	0.994	0.994	0.994	0.995	0.995	0.995	0.995	0.995	0.995	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	0.994	0.995	0.995	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.997	0.996	0.997	0.996	0.996	0.997	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	0.995	0.995	0.995	0.995	0.995	0.994	0.994	0.994	0.993	0.993	0.993	0.992	0.992	0.992	0.992	
$\lambda$ nm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	
$\tau$	0.991	0.991	0.991	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.989	0.990	0.989	0.989	0.989	0.989	0.989	0.989	0.988	0.988	
$\lambda$ nm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	
$\tau$	0.988	0.987	0.985	0.978	0.970	0.961	0.960	0.958	0.948	0.943	0.940	0.934	0.922	0.907	0.879	0.603	0.258	0.192	0.159	0.135	
$\lambda$ nm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950	
$\tau$	0.115	0.101	0.090	0.081	0.074	0.068	0.064	0.061	0.055	0.048	0.040	0.033	0.031	0.030	0.029	0.024	0.020	0.023	0.030	0.043	
$\lambda$ nm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950	
$\tau$	0.046	0.039	0.032	0.031	0.032	0.034	0.033	0.029	0.023	0.016	0.010	0.006	0.003	0.001	0.001	0.001	<1E-05	<1E-05	<1E-05	<1E-05	
$\lambda$ nm	5000																				
$\tau$	<1E-05																				

