

Internal Transmittance (τ)

| | | | | | | | | | | | | | | | | | | | | |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| λ nm | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 | 390 |
| τ | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | 0.001 | 0.010 | 0.085 | 0.246 | 0.431 | 0.565 | 0.624 | 0.608 | 0.713 |
| λ nm | 400 | 410 | 420 | 430 | 440 | 450 | 460 | 470 | 480 | 490 | 500 | 510 | 520 | 530 | 540 | 550 | 560 | 570 | 580 | 590 |
| τ | 0.750 | 0.744 | 0.746 | 0.755 | 0.751 | 0.763 | 0.773 | 0.771 | 0.766 | 0.760 | 0.757 | 0.755 | 0.756 | 0.759 | 0.761 | 0.761 | 0.759 | 0.752 | 0.745 | 0.741 |
| λ nm | 600 | 610 | 620 | 630 | 640 | 650 | 660 | 670 | 680 | 690 | 700 | 710 | 720 | 730 | 740 | 750 | 760 | 770 | 780 | 790 |
| τ | 0.740 | 0.743 | 0.747 | 0.747 | 0.744 | 0.744 | 0.746 | 0.752 | 0.763 | 0.775 | 0.784 | 0.791 | 0.796 | 0.799 | 0.795 | 0.792 | 0.786 | 0.778 | 0.772 | 0.765 |
| λ nm | 800 | 810 | 820 | 830 | 840 | 850 | 860 | 870 | 880 | 890 | 900 | 910 | 920 | 930 | 940 | 950 | 960 | 970 | 980 | 990 |
| τ | 0.758 | 0.750 | 0.742 | 0.735 | 0.726 | 0.720 | 0.711 | 0.707 | 0.703 | 0.693 | 0.688 | 0.681 | 0.674 | 0.666 | 0.662 | 0.657 | 0.650 | 0.647 | 0.641 | 0.637 |
| λ nm | 1000 | 1010 | 1020 | 1030 | 1040 | 1050 | 1060 | 1070 | 1080 | 1090 | 1100 | 1120 | 1140 | 1160 | 1180 | 1200 | | | | |
| τ | 0.634 | 0.634 | 0.631 | 0.628 | 0.626 | 0.624 | 0.621 | 0.619 | 0.618 | 0.617 | 0.617 | 0.616 | 0.618 | 0.620 | 0.623 | 0.627 | | | | |

Refractive Index/Absorption coefficient/Reflection coefficient

| | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|
| λ nm | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| n | 1.524 | 1.511 | 1.504 | 1.500 | 1.498 | 1.496 | 1.495 |
| K | 1.1E-05 | 1.2E-05 | 1.5E+00 | 1.5E-05 | 2.0E-05 | 2.7E-05 | 3.4E-05 |
| P | 0.917 | 0.920 | 0.922 | 0.923 | 0.924 | 0.924 | 0.924 |

Classes of Bubbles and Inclusions

| |
|--------------|
| Bubble Class |
| 3 |

Color Specification

| | | | | | |
|-----|-------|-------|----|-------------|----------------|
| | x | y | Y | λ_d | P _e |
| A | 0.446 | 0.408 | 69 | 496 | 0 |
| C | 0.308 | 0.316 | 69 | 487 | 1 |
| D65 | 0.311 | 0.329 | 69 | 488 | 1 |

Properties

| Chemical | | Thermal | | | | Mechanical | | Others |
|----------------|----------------|----------------|----------------|--------------------|---------------------|----------------|----------------|--------|
| D _W | D _A | T _g | T _s | α -30/70 | α 100/300 | H _K | F _A | d |
| 3 | 2 | 485 | 565 | - | 66 | 423 | 110 | 2.40 |

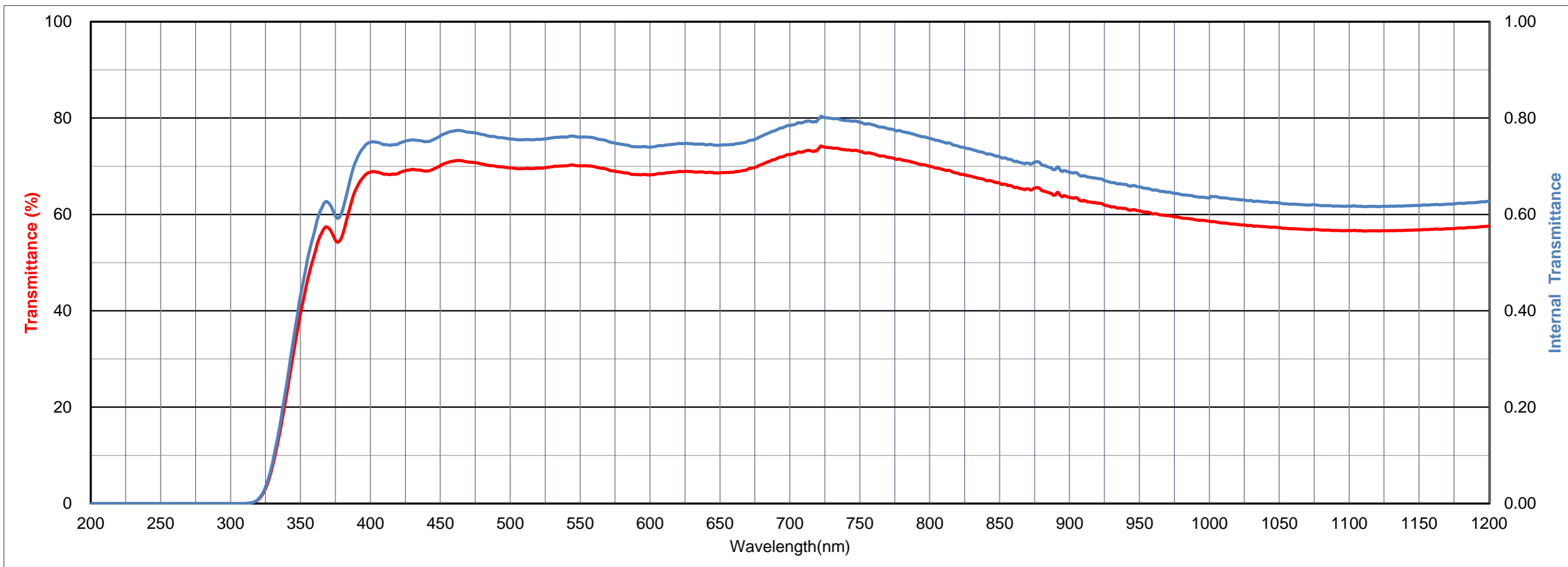
Tolerance of Transmittance (τ)

| | | |
|----------------|----------------|----------------|
| τ 405 (1) | τ 546 (2) | τ 694 (3) |
| 0.76±0.02 | 0.77±0.02 | 0.79±0.02 |

(1)Internal transmittance at 405nm

(2)Internal transmittance at 546nm

(3)Internal transmittance at 694nm



Internal Transmittance (τ)

| | | | | | | | | | | | | | | | | | | | | |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| λ nm | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 | 390 |
| τ | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | <1E-05 | 0.001 | 0.010 | 0.085 | 0.246 | 0.431 | 0.565 | 0.624 | 0.608 | 0.713 |
| λ nm | 400 | 410 | 420 | 430 | 440 | 450 | 460 | 470 | 480 | 490 | 500 | 510 | 520 | 530 | 540 | 550 | 560 | 570 | 580 | 590 |
| τ | 0.750 | 0.744 | 0.746 | 0.755 | 0.751 | 0.763 | 0.773 | 0.771 | 0.766 | 0.760 | 0.757 | 0.755 | 0.756 | 0.759 | 0.761 | 0.761 | 0.759 | 0.752 | 0.745 | 0.741 |
| λ nm | 600 | 610 | 620 | 630 | 640 | 650 | 660 | 670 | 680 | 690 | 700 | 710 | 720 | 730 | 740 | 750 | 760 | 770 | 780 | 790 |
| τ | 0.740 | 0.743 | 0.747 | 0.747 | 0.744 | 0.744 | 0.746 | 0.752 | 0.763 | 0.775 | 0.784 | 0.791 | 0.796 | 0.799 | 0.795 | 0.792 | 0.786 | 0.778 | 0.772 | 0.765 |
| λ nm | 800 | 810 | 820 | 830 | 840 | 850 | 860 | 870 | 880 | 890 | 900 | 910 | 920 | 930 | 940 | 950 | 960 | 970 | 980 | 990 |
| τ | 0.758 | 0.750 | 0.742 | 0.735 | 0.726 | 0.720 | 0.711 | 0.707 | 0.703 | 0.693 | 0.688 | 0.681 | 0.674 | 0.666 | 0.662 | 0.657 | 0.650 | 0.647 | 0.641 | 0.637 |
| λ nm | 1000 | 1010 | 1020 | 1030 | 1040 | 1050 | 1060 | 1070 | 1080 | 1090 | 1100 | 1110 | 1120 | 1130 | 1140 | 1150 | 1160 | 1170 | 1180 | 1190 |
| τ | 0.634 | 0.634 | 0.631 | 0.628 | 0.626 | 0.624 | 0.621 | 0.619 | 0.618 | 0.617 | 0.617 | 0.616 | 0.616 | 0.617 | 0.618 | 0.618 | 0.620 | 0.621 | 0.623 | 0.624 |
| λ nm | 1200 | 1210 | 1220 | 1230 | 1240 | 1250 | 1260 | 1270 | 1280 | 1290 | 1300 | 1310 | 1320 | 1330 | 1340 | 1350 | 1360 | 1370 | 1380 | 1390 |
| τ | 0.627 | 0.629 | 0.632 | 0.636 | 0.639 | 0.642 | 0.646 | 0.650 | 0.654 | 0.658 | 0.662 | 0.667 | 0.671 | 0.677 | 0.681 | 0.687 | 0.690 | 0.695 | 0.698 | 0.703 |
| λ nm | 1400 | 1410 | 1420 | 1430 | 1440 | 1450 | 1460 | 1470 | 1480 | 1490 | 1500 | 1510 | 1520 | 1530 | 1540 | 1550 | 1560 | 1570 | 1580 | 1590 |
| τ | 0.707 | 0.709 | 0.715 | 0.720 | 0.725 | 0.730 | 0.734 | 0.738 | 0.742 | 0.745 | 0.748 | 0.750 | 0.752 | 0.754 | 0.756 | 0.757 | 0.758 | 0.759 | 0.760 | 0.760 |
| λ nm | 1600 | 1610 | 1620 | 1630 | 1640 | 1650 | 1660 | 1670 | 1680 | 1690 | 1700 | 1710 | 1720 | 1730 | 1740 | 1750 | 1760 | 1770 | 1780 | 1790 |
| τ | 0.761 | 0.761 | 0.761 | 0.761 | 0.761 | 0.760 | 0.760 | 0.760 | 0.759 | 0.759 | 0.758 | 0.758 | 0.758 | 0.757 | 0.757 | 0.757 | 0.757 | 0.757 | 0.758 | 0.758 |
| λ nm | 1800 | 1810 | 1820 | 1830 | 1840 | 1850 | 1860 | 1870 | 1880 | 1890 | 1900 | 1910 | 1920 | 1930 | 1940 | 1950 | 1960 | 1970 | 1980 | 1990 |
| τ | 0.759 | 0.761 | 0.761 | 0.762 | 0.763 | 0.764 | 0.766 | 0.767 | 0.768 | 0.769 | 0.770 | 0.772 | 0.774 | 0.775 | 0.776 | 0.777 | 0.779 | 0.780 | 0.781 | 0.783 |
| λ nm | 2000 | 2050 | 2100 | 2150 | 2200 | 2250 | 2300 | 2350 | 2400 | 2450 | 2500 | 2550 | 2600 | 2650 | 2700 | 2750 | 2800 | 2850 | 2900 | 2950 |
| τ | 0.784 | 0.791 | 0.798 | 0.801 | 0.805 | 0.812 | 0.819 | 0.822 | 0.821 | 0.823 | 0.823 | 0.823 | 0.818 | 0.821 | 0.780 | 0.439 | 0.310 | 0.298 | 0.316 | 0.342 |
| λ nm | 3000 | 3050 | 3100 | 3150 | 3200 | 3250 | 3300 | 3350 | 3400 | 3450 | 3500 | 3550 | 3600 | 3650 | 3700 | 3750 | 3800 | 3850 | 3900 | 3950 |
| τ | 0.370 | 0.400 | 0.431 | 0.462 | 0.491 | 0.510 | 0.504 | 0.461 | 0.378 | 0.281 | 0.194 | 0.133 | 0.100 | 0.086 | 0.106 | 0.145 | 0.189 | 0.204 | 0.185 | 0.154 |
| λ nm | 4000 | 4050 | 4100 | 4150 | 4200 | 4250 | 4300 | 4350 | 4400 | 4450 | 4500 | 4550 | 4600 | 4650 | 4700 | 4750 | 4800 | 4850 | 4900 | 4950 |
| τ | 0.132 | 0.127 | 0.134 | 0.141 | 0.139 | 0.126 | 0.105 | 0.084 | 0.063 | 0.048 | 0.036 | 0.027 | 0.022 | 0.019 | 0.017 | 0.015 | 0.015 | 0.014 | 0.014 | 0.014 |
| λ nm | 5000 | | | | | | | | | | | | | | | | | | | |
| τ | 0.0 | | | | | | | | | | | | | | | | | | | |

