

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 | <1E-05 | <1E-05 | <1E-05 | 0.001 | 0.002 | 0.008 | 0.019 | 0.027 | 0.050 |
| λ nm | 400 | 410 | 420 | 430 | 440 | 450 | 460 | 470 | 480 | 490 | 500 | 510 | 520 | 530 | 540 | 550 | 560 | 570 | 580 | 590 |
| τ | 0.068 | 0.075 | 0.081 | 0.087 | 0.087 | 0.093 | 0.100 | 0.100 | 0.097 | 0.094 | 0.093 | 0.092 | 0.092 | 0.094 | 0.096 | 0.096 | 0.094 | 0.092 | 0.090 | 0.091 |
| λ nm | 600 | 610 | 620 | 630 | 640 | 650 | 660 | 670 | 680 | 690 | 700 | 710 | 720 | 730 | 740 | 750 | 760 | 770 | 780 | 790 |
| τ | 0.093 | 0.096 | 0.099 | 0.102 | 0.104 | 0.108 | 0.114 | 0.122 | 0.135 | 0.149 | 0.160 | 0.168 | 0.175 | 0.179 | 0.184 | 0.187 | 0.189 | 0.191 | 0.192 | 0.192 |
| λ nm | 800 | 810 | 820 | 830 | 840 | 850 | 860 | 870 | 880 | 890 | 900 | 910 | 920 | 930 | 940 | 950 | 960 | 970 | 980 | 990 |
| τ | 0.193 | 0.191 | 0.193 | 0.191 | 0.190 | 0.187 | 0.185 | 0.182 | 0.180 | 0.178 | 0.176 | 0.174 | 0.171 | 0.169 | 0.167 | 0.166 | 0.164 | 0.163 | 0.162 | 0.162 |
| λ nm | 1000 | 1010 | 1020 | 1030 | 1040 | 1050 | 1060 | 1070 | 1080 | 1090 | 1100 | 1120 | 1140 | 1160 | 1180 | 1200 | | | | |
| τ | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 | 0.162 | 0.162 | 0.163 | 0.164 | 0.166 | 0.167 | 0.171 | 0.175 | 0.181 | 0.187 | 0.195 | | | | |

Refractive Index/Absorption coefficient/Reflection coefficient

| | | | | | | | |
|--------------|---------|---------|---------|---------|---------|---------|---------|
| λ nm | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| n | 1.537 | 1.523 | 1.516 | 1.512 | 1.509 | 1.507 | 1.506 |
| K | 8.8E-05 | 9.6E-05 | 1.2E-04 | 1.0E-04 | 1.1E-04 | 1.3E-04 | 1.5E-04 |
| P | 0.914 | 0.918 | 0.919 | 0.920 | 0.921 | 0.921 | 0.922 |

Classes of Bubbles and Inclusions

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

Color Specification

| | | | | | |
|-----|-------|-------|---|-------------|----------------|
| | x | y | Y | λ_d | P _e |
| A | 0.454 | 0.404 | 9 | 638 | 3 |
| C | 0.315 | 0.318 | 9 | 593 | 2 |
| D65 | 0.317 | 0.330 | 9 | 593 | 2 |

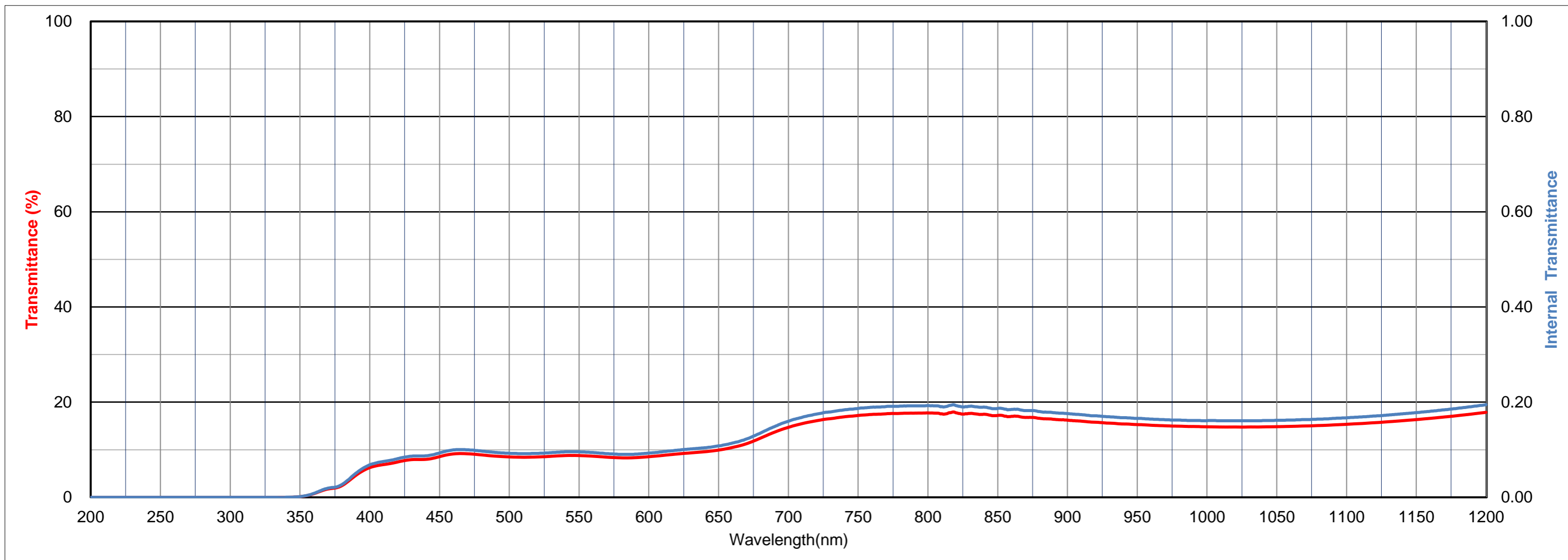
Properties

| 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 | 545 | - | 75 | 416 | 114 | 2.44 |

Tolerance of Transmittance (τ)

| | | |
|----------------|----------------|----------------|
| τ 405 (1) | τ 546 (2) | τ 694 (3) |
| 0.06±0.02 | 0.10±0.02 | 0.17±0.03 |

(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 | <1E-05 | <1E-05 | <1E-05 | 0.001 | 0.002 | 0.008 | 0.019 | 0.027 | 0.050 |
| λ nm | 400 | 410 | 420 | 430 | 440 | 450 | 460 | 470 | 480 | 490 | 500 | 510 | 520 | 530 | 540 | 550 | 560 | 570 | 580 | 590 |
| τ | 0.068 | 0.075 | 0.081 | 0.087 | 0.087 | 0.093 | 0.100 | 0.100 | 0.097 | 0.094 | 0.093 | 0.092 | 0.092 | 0.094 | 0.096 | 0.096 | 0.094 | 0.092 | 0.090 | 0.091 |
| λ nm | 600 | 610 | 620 | 630 | 640 | 650 | 660 | 670 | 680 | 690 | 700 | 710 | 720 | 730 | 740 | 750 | 760 | 770 | 780 | 790 |
| τ | 0.093 | 0.096 | 0.099 | 0.102 | 0.104 | 0.108 | 0.114 | 0.122 | 0.135 | 0.149 | 0.160 | 0.168 | 0.175 | 0.179 | 0.184 | 0.187 | 0.189 | 0.191 | 0.192 | 0.192 |
| λ nm | 800 | 810 | 820 | 830 | 840 | 850 | 860 | 870 | 880 | 890 | 900 | 910 | 920 | 930 | 940 | 950 | 960 | 970 | 980 | 990 |
| τ | 0.193 | 0.191 | 0.193 | 0.191 | 0.190 | 0.187 | 0.185 | 0.182 | 0.180 | 0.178 | 0.176 | 0.174 | 0.171 | 0.169 | 0.167 | 0.166 | 0.164 | 0.163 | 0.162 | 0.162 |
| λ nm | 1000 | 1010 | 1020 | 1030 | 1040 | 1050 | 1060 | 1070 | 1080 | 1090 | 1100 | 1110 | 1120 | 1130 | 1140 | 1150 | 1160 | 1170 | 1180 | 1190 |
| τ | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 | 0.162 | 0.162 | 0.163 | 0.164 | 0.166 | 0.167 | 0.169 | 0.171 | 0.173 | 0.175 | 0.178 | 0.181 | 0.184 | 0.187 | 0.191 |
| λ nm | 1200 | 1210 | 1220 | 1230 | 1240 | 1250 | 1260 | 1270 | 1280 | 1290 | 1300 | 1310 | 1320 | 1330 | 1340 | 1350 | 1360 | 1370 | 1380 | 1390 |
| τ | 0.195 | 0.199 | 0.203 | 0.208 | 0.213 | 0.218 | 0.223 | 0.229 | 0.234 | 0.240 | 0.246 | 0.253 | 0.259 | 0.266 | 0.273 | 0.279 | 0.286 | 0.292 | 0.299 | 0.305 |
| λ nm | 1400 | 1410 | 1420 | 1430 | 1440 | 1450 | 1460 | 1470 | 1480 | 1490 | 1500 | 1510 | 1520 | 1530 | 1540 | 1550 | 1560 | 1570 | 1580 | 1590 |
| τ | 0.311 | 0.317 | 0.323 | 0.329 | 0.335 | 0.340 | 0.345 | 0.350 | 0.355 | 0.354 | 0.353 | 0.356 | 0.359 | 0.362 | 0.364 | 0.366 | 0.367 | 0.369 | 0.370 | 0.370 |
| λ nm | 1600 | 1610 | 1620 | 1630 | 1640 | 1650 | 1660 | 1670 | 1680 | 1690 | 1700 | 1710 | 1720 | 1730 | 1740 | 1750 | 1760 | 1770 | 1780 | 1790 |
| τ | 0.370 | 0.370 | 0.370 | 0.370 | 0.369 | 0.369 | 0.368 | 0.367 | 0.367 | 0.366 | 0.365 | 0.365 | 0.364 | 0.363 | 0.363 | 0.363 | 0.363 | 0.363 | 0.363 | 0.363 |
| λ nm | 1800 | 1810 | 1820 | 1830 | 1840 | 1850 | 1860 | 1870 | 1880 | 1890 | 1900 | 1910 | 1920 | 1930 | 1940 | 1950 | 1960 | 1970 | 1980 | 1990 |
| τ | 0.365 | 0.365 | 0.367 | 0.368 | 0.369 | 0.370 | 0.372 | 0.373 | 0.375 | 0.377 | 0.379 | 0.381 | 0.383 | 0.386 | 0.388 | 0.390 | 0.392 | 0.395 | 0.398 | 0.400 |
| λ nm | 2000 | 2050 | 2100 | 2150 | 2200 | 2250 | 2300 | 2350 | 2400 | 2450 | 2500 | 2550 | 2600 | 2650 | 2700 | 2750 | 2800 | 2850 | 2900 | 2950 |
| τ | 0.403 | 0.418 | 0.433 | 0.447 | 0.461 | 0.476 | 0.493 | 0.507 | 0.515 | 0.526 | 0.535 | 0.545 | 0.556 | 0.560 | 0.543 | 0.277 | 0.156 | 0.146 | 0.159 | 0.177 |
| λ nm | 3000 | 3050 | 3100 | 3150 | 3200 | 3250 | 3300 | 3350 | 3400 | 3450 | 3500 | 3550 | 3600 | 3650 | 3700 | 3750 | 3800 | 3850 | 3900 | 3950 |
| τ | 0.197 | 0.218 | 0.243 | 0.269 | 0.296 | 0.319 | 0.328 | 0.313 | 0.268 | 0.202 | 0.141 | 0.092 | 0.065 | 0.051 | 0.060 | 0.084 | 0.115 | 0.132 | 0.124 | 0.104 |
| λ nm | 4000 | 4050 | 4100 | 4150 | 4200 | 4250 | 4300 | 4350 | 4400 | 4450 | 4500 | 4550 | 4600 | 4650 | 4700 | 4750 | 4800 | 4850 | 4900 | 4950 |
| τ | 0.086 | 0.081 | 0.086 | 0.091 | 0.091 | 0.084 | 0.071 | 0.054 | 0.039 | 0.027 | 0.018 | 0.011 | 0.007 | 0.004 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| λ nm | 5000 | | | | | | | | | | | | | | | | | | | |
| τ | <1E-05 | | | | | | | | | | | | | | | | | | | |

