

* You can not use Macro security setting yet. Please refer to "MACRO SETTING" to use this page.

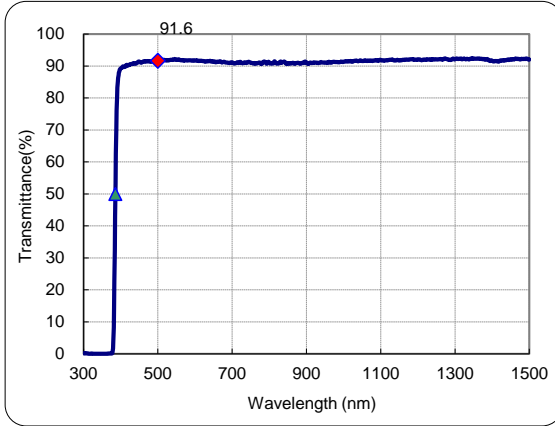
- All data are mean values of various melts.
- Change thickness and condition to check variations of data.→

Condition

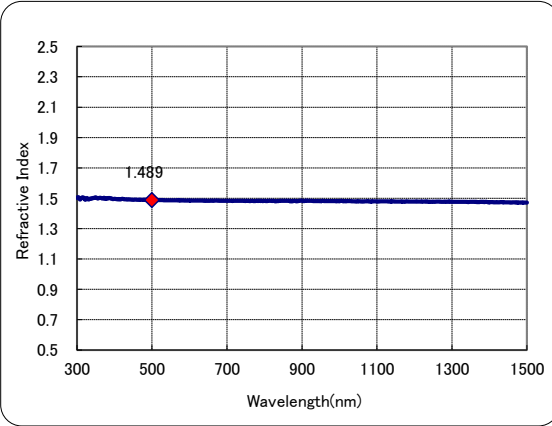
Thickness **1.1mm**

Current data are approximate values.

● Transmittance



● Refractive index



<Meaning of sign>

- λ (nm) :Wavelength
- T (%) :External Transmittance
- τ :Internal Transmittance
- OD :Optical Density
- n_m :Refractive Index
- k_m :Extinction Coefficient

◆ < Set wavelength >

▲ < Transmittance 50% >

d-line(587.56nm)

e-line(546.07nm)

| λ (nm) | T(%) | τ | OD | n_m | k_m |
|----------------|------|--------|------|-------|-----------|
| 500 | 91.6 | 0.990 | 0.04 | 1.489 | 3.696E-07 |
| 385.7 | 50.0 | 0.543 | 0.30 | 1.502 | 1.720E-05 |
| - | - | - | - | - | - |
| 587.56 | 91.8 | 0.991 | 0.04 | 1.485 | 3.804E-07 |
| 546.07 | 92.1 | 0.995 | 0.04 | 1.487 | 2.065E-07 |

| λ (nm) | T(%) | τ | OD | n_m | k_m |
|----------------|---------|---------|------|-------|-----------|
| 300 | 0.2 | 0.002 | 2.75 | 1.504 | 1.354E-04 |
| 310 | 0.1 | 0.001 | 2.88 | 1.497 | 1.469E-04 |
| 320 | 0.1 | 0.001 | 3.24 | 1.496 | 1.709E-04 |
| 330 | 1.7E-02 | 1.9E-04 | 3.77 | 1.492 | 2.051E-04 |
| 340 | 2.6E-02 | 2.8E-04 | 3.59 | 1.499 | 2.011E-04 |
| 350 | 1.1E-02 | 1.2E-04 | 3.94 | 1.506 | 2.277E-04 |
| 360 | 4.9E-02 | 0.001 | 3.31 | 1.503 | 1.966E-04 |
| 370 | 0.1 | 0.001 | 2.99 | 1.501 | 1.822E-04 |
| 380 | 4.1 | 0.045 | 1.39 | 1.498 | 8.551E-05 |
| 390 | 80.4 | 0.871 | 0.09 | 1.499 | 3.901E-06 |
| 400 | 89.3 | 0.967 | 0.05 | 1.496 | 9.810E-07 |
| 410 | 89.7 | 0.971 | 0.05 | 1.493 | 8.830E-07 |
| 420 | 90.3 | 0.977 | 0.04 | 1.496 | 7.090E-07 |
| 430 | 90.6 | 0.980 | 0.04 | 1.494 | 6.217E-07 |
| 440 | 90.7 | 0.981 | 0.04 | 1.493 | 6.207E-07 |
| 450 | 91.4 | 0.988 | 0.04 | 1.490 | 3.967E-07 |
| 460 | 91.4 | 0.987 | 0.04 | 1.490 | 4.337E-07 |
| 470 | 91.5 | 0.988 | 0.04 | 1.490 | 3.987E-07 |
| 480 | 91.5 | 0.988 | 0.04 | 1.489 | 4.071E-07 |
| 490 | 91.5 | 0.988 | 0.04 | 1.489 | 4.128E-07 |
| 500 | 91.6 | 0.990 | 0.04 | 1.489 | 3.696E-07 |
| 510 | 91.7 | 0.990 | 0.04 | 1.488 | 3.719E-07 |
| 520 | 91.8 | 0.992 | 0.04 | 1.488 | 3.155E-07 |
| 530 | 91.8 | 0.992 | 0.04 | 1.488 | 3.156E-07 |
| 540 | 91.9 | 0.993 | 0.04 | 1.487 | 2.848E-07 |
| 550 | 91.9 | 0.992 | 0.04 | 1.487 | 3.028E-07 |
| 560 | 91.9 | 0.992 | 0.04 | 1.487 | 3.321E-07 |
| 570 | 91.8 | 0.991 | 0.04 | 1.486 | 3.801E-07 |
| 580 | 91.8 | 0.990 | 0.04 | 1.486 | 4.028E-07 |
| 590 | 91.8 | 0.990 | 0.04 | 1.485 | 4.160E-07 |
| 600 | 91.7 | 0.990 | 0.04 | 1.485 | 4.395E-07 |
| 610 | 91.6 | 0.989 | 0.04 | 1.485 | 5.094E-07 |
| 620 | 91.6 | 0.988 | 0.04 | 1.484 | 5.339E-07 |
| 630 | 91.4 | 0.987 | 0.04 | 1.484 | 6.083E-07 |
| 640 | 91.6 | 0.989 | 0.04 | 1.484 | 5.355E-07 |

| λ (nm) | T(%) | τ | OD | n_m | k_m |
|----------------|------|--------|------|-------|-----------|
| 650 | 91.5 | 0.987 | 0.04 | 1.484 | 6.120E-07 |
| 660 | 91.4 | 0.986 | 0.04 | 1.484 | 6.842E-07 |
| 670 | 91.3 | 0.985 | 0.04 | 1.484 | 7.096E-07 |
| 680 | 91.3 | 0.985 | 0.04 | 1.484 | 7.514E-07 |
| 690 | 91.0 | 0.982 | 0.04 | 1.483 | 9.230E-07 |
| 700 | 91.2 | 0.983 | 0.04 | 1.483 | 8.515E-07 |
| 710 | 90.9 | 0.981 | 0.04 | 1.483 | 9.906E-07 |
| 720 | 91.1 | 0.983 | 0.04 | 1.483 | 8.873E-07 |
| 730 | 90.9 | 0.981 | 0.04 | 1.483 | 1.036E-06 |
| 740 | 91.0 | 0.981 | 0.04 | 1.483 | 1.000E-06 |
| 750 | 91.0 | 0.982 | 0.04 | 1.483 | 9.856E-07 |
| 760 | 90.9 | 0.981 | 0.04 | 1.482 | 1.079E-06 |
| 770 | 91.0 | 0.982 | 0.04 | 1.482 | 1.023E-06 |
| 780 | 90.7 | 0.979 | 0.04 | 1.483 | 1.217E-06 |
| 790 | 91.1 | 0.982 | 0.04 | 1.482 | 1.026E-06 |
| 800 | 91.1 | 0.982 | 0.04 | 1.483 | 1.029E-06 |
| 850 | 91.0 | 0.982 | 0.04 | 1.483 | 1.148E-06 |
| 900 | 91.1 | 0.983 | 0.04 | 1.484 | 1.102E-06 |
| 950 | 91.1 | 0.982 | 0.04 | 1.481 | 1.242E-06 |
| 1000 | 91.3 | 0.984 | 0.04 | 1.480 | 1.152E-06 |
| 1050 | 91.6 | 0.987 | 0.04 | 1.481 | 9.758E-07 |
| 1100 | 91.9 | 0.990 | 0.04 | 1.479 | 7.981E-07 |
| 1150 | 91.8 | 0.988 | 0.04 | 1.477 | 9.679E-07 |
| 1200 | 92.0 | 0.991 | 0.04 | 1.478 | 7.973E-07 |
| 1250 | 92.2 | 0.993 | 0.04 | 1.478 | 6.595E-07 |
| 1300 | 92.1 | 0.992 | 0.04 | 1.477 | 7.307E-07 |
| 1350 | 92.4 | 0.995 | 0.03 | 1.476 | 5.372E-07 |
| 1400 | 91.7 | 0.987 | 0.04 | 1.474 | 1.375E-06 |
| 1450 | 92.1 | 0.991 | 0.04 | 1.473 | 9.479E-07 |
| 1500 | 92.0 | 0.990 | 0.04 | 1.471 | 1.104E-06 |

Spectrophotometer used HITACHI U-4100.

Date 14/12/09