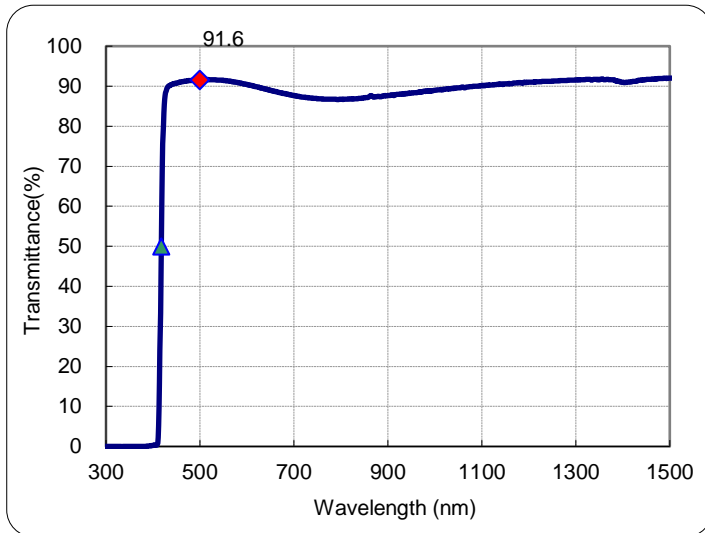


* You can not use Macro security setting yet. Please refer to "MACRO SETTING" to use this page.

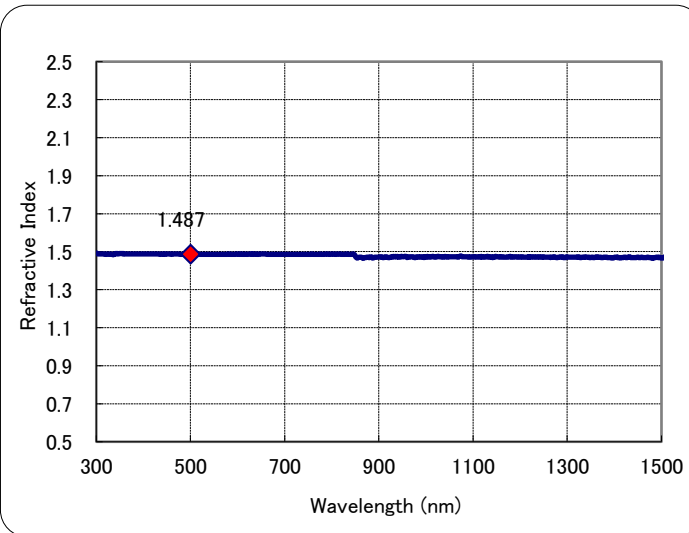
- All data are mean values of various melts.
- Change thickness and condition to check variations of data.→

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 >

▲ <Transmittance50%>

d-line(587.56nm)

e-line(546.07nm)

| λ (nm) | T(%) | τ | OD | n_m | k_m |
|----------------|------|--------|------|-------|-----------|
| 500 | 91.6 | 0.989 | 0.04 | 1.487 | 4.012E-07 |
| 417.7 | 50.0 | 0.540 | 0.30 | 1.487 | 1.872E-05 |
| - | - | - | - | - | - |
| 587.56 | 90.8 | 0.980 | 0.04 | 1.487 | 8.625E-07 |
| 546.07 | 91.5 | 0.988 | 0.04 | 1.487 | 4.812E-07 |

| λ (nm) | T(%) | τ | OD | n_m | k_m |
|----------------|---------|---------|------|-------|-----------|
| 300 | 1.5E-02 | 1.6E-04 | 3.83 | 1.493 | 1.897E-04 |
| 310 | 7.5E-03 | 8.1E-05 | 4.13 | 1.488 | 2.113E-04 |
| 320 | 5.0E-03 | 5.5E-05 | 4.30 | 1.486 | 2.273E-04 |
| 330 | 3.8E-03 | 4.1E-05 | 4.42 | 1.488 | 2.411E-04 |
| 340 | 5.0E-03 | 5.5E-05 | 4.30 | 1.489 | 2.414E-04 |
| 350 | 6.3E-03 | 6.8E-05 | 4.20 | 1.490 | 2.430E-04 |
| 360 | 5.0E-03 | 5.5E-05 | 4.30 | 1.489 | 2.556E-04 |
| 370 | 5.0E-03 | 5.5E-05 | 4.30 | 1.489 | 2.627E-04 |
| 380 | 2.1E-02 | 2.2E-04 | 3.68 | 1.488 | 2.310E-04 |
| 390 | 0.1 | 0.001 | 3.00 | 1.487 | 1.927E-04 |
| 400 | 0.3 | 0.003 | 2.59 | 1.488 | 1.703E-04 |
| 410 | 0.8 | 0.009 | 2.07 | 1.487 | 1.393E-04 |
| 420 | 69.6 | 0.752 | 0.16 | 1.488 | 8.665E-06 |
| 430 | 89.5 | 0.967 | 0.05 | 1.488 | 1.043E-06 |
| 440 | 90.4 | 0.977 | 0.04 | 1.487 | 7.537E-07 |
| 450 | 90.8 | 0.980 | 0.04 | 1.487 | 6.482E-07 |
| 460 | 91.1 | 0.984 | 0.04 | 1.487 | 5.483E-07 |
| 470 | 91.3 | 0.986 | 0.04 | 1.487 | 4.932E-07 |
| 480 | 91.4 | 0.987 | 0.04 | 1.487 | 4.472E-07 |
| 490 | 91.5 | 0.988 | 0.04 | 1.487 | 4.283E-07 |
| 500 | 91.6 | 0.989 | 0.04 | 1.487 | 4.012E-07 |
| 510 | 91.6 | 0.989 | 0.04 | 1.487 | 4.009E-07 |
| 520 | 91.6 | 0.990 | 0.04 | 1.487 | 3.957E-07 |
| 530 | 91.6 | 0.989 | 0.04 | 1.487 | 4.094E-07 |
| 540 | 91.5 | 0.988 | 0.04 | 1.487 | 4.637E-07 |
| 550 | 91.4 | 0.987 | 0.04 | 1.487 | 5.064E-07 |
| 560 | 91.3 | 0.986 | 0.04 | 1.487 | 5.679E-07 |
| 570 | 91.1 | 0.983 | 0.04 | 1.487 | 6.868E-07 |
| 580 | 90.9 | 0.982 | 0.04 | 1.487 | 7.764E-07 |
| 590 | 90.7 | 0.979 | 0.04 | 1.487 | 9.050E-07 |
| 600 | 90.4 | 0.977 | 0.04 | 1.487 | 1.025E-06 |
| 610 | 90.1 | 0.973 | 0.05 | 1.487 | 1.186E-06 |
| 620 | 89.9 | 0.970 | 0.05 | 1.487 | 1.349E-06 |
| 630 | 89.6 | 0.967 | 0.05 | 1.487 | 1.524E-06 |
| 640 | 89.3 | 0.964 | 0.05 | 1.487 | 1.692E-06 |

| λ (nm) | T(%) | τ | OD | n_m | k_m |
|----------------|------|--------|------|-------|-----------|
| 650 | 89.0 | 0.961 | 0.05 | 1.487 | 1.875E-06 |
| 660 | 88.7 | 0.958 | 0.05 | 1.487 | 2.055E-06 |
| 670 | 88.4 | 0.955 | 0.05 | 1.486 | 2.255E-06 |
| 680 | 88.2 | 0.952 | 0.05 | 1.486 | 2.437E-06 |
| 690 | 87.9 | 0.949 | 0.06 | 1.486 | 2.601E-06 |
| 700 | 87.7 | 0.947 | 0.06 | 1.486 | 2.782E-06 |
| 710 | 87.5 | 0.944 | 0.06 | 1.487 | 2.933E-06 |
| 720 | 87.3 | 0.942 | 0.06 | 1.487 | 3.086E-06 |
| 730 | 87.1 | 0.941 | 0.06 | 1.487 | 3.223E-06 |
| 740 | 87.0 | 0.939 | 0.06 | 1.486 | 3.353E-06 |
| 750 | 86.9 | 0.938 | 0.06 | 1.487 | 3.455E-06 |
| 760 | 86.8 | 0.938 | 0.06 | 1.487 | 3.545E-06 |
| 770 | 86.8 | 0.937 | 0.06 | 1.487 | 3.633E-06 |
| 780 | 86.7 | 0.937 | 0.06 | 1.487 | 3.701E-06 |
| 790 | 86.7 | 0.937 | 0.06 | 1.488 | 3.739E-06 |
| 800 | 86.7 | 0.937 | 0.06 | 1.488 | 3.771E-06 |
| 850 | 87.1 | 0.938 | 0.06 | 1.477 | 3.923E-06 |
| 900 | 87.7 | 0.943 | 0.06 | 1.472 | 3.816E-06 |
| 950 | 88.3 | 0.951 | 0.05 | 1.474 | 3.476E-06 |
| 1000 | 89.0 | 0.957 | 0.05 | 1.473 | 3.153E-06 |
| 1050 | 89.6 | 0.964 | 0.05 | 1.473 | 2.784E-06 |
| 1100 | 90.2 | 0.970 | 0.04 | 1.472 | 2.417E-06 |
| 1150 | 90.6 | 0.975 | 0.04 | 1.474 | 2.095E-06 |
| 1200 | 91.1 | 0.980 | 0.04 | 1.473 | 1.784E-06 |
| 1250 | 91.3 | 0.982 | 0.04 | 1.472 | 1.675E-06 |
| 1300 | 91.5 | 0.985 | 0.04 | 1.473 | 1.416E-06 |
| 1350 | 91.6 | 0.985 | 0.04 | 1.470 | 1.481E-06 |
| 1400 | 91.0 | 0.978 | 0.04 | 1.470 | 2.229E-06 |
| 1450 | 91.7 | 0.986 | 0.04 | 1.472 | 1.478E-06 |
| 1500 | 92.0 | 0.989 | 0.04 | 1.467 | 1.244E-06 |

Spectrophotometer used HITACHI U-4100.

Date14/12/09