

近赤外吸収（色補正）フィルター

近红外吸收（色彩校正）滤光片

Near infrared absorption（Color Compensating）Filter



CU700

Standard Thickness  
t= 0.60

:

| λ (nm) | n       | T (%) | τ (%) | A    | K<br>(×10 <sup>-4</sup> ) | λ (nm) | n       | T (%) | τ (%) | A    | K<br>(×10 <sup>-4</sup> ) |
|--------|---------|-------|-------|------|---------------------------|--------|---------|-------|-------|------|---------------------------|
|        |         | 0.60  | 0.60  |      |                           |        |         | 0.60  | 0.60  |      |                           |
| 2500   | 1.51450 |       |       |      |                           | 690    | 1.53729 | 8.85  | 9.70  | 1.76 | 2.14                      |
| 2400   | 1.51582 |       |       |      |                           | 680    | 1.53758 | 11.65 | 12.77 | 1.56 | 1.86                      |
| 2300   | 1.51709 |       |       |      |                           | 670    | 1.53788 | 15.23 | 16.69 | 1.36 | 1.59                      |
| 2200   | 1.51832 |       |       |      |                           | 660    | 1.53819 | 19.60 | 21.49 | 1.18 | 1.35                      |
| 2100   | 1.51950 |       |       |      |                           | 650    | 1.53852 | 24.84 | 27.24 | 1.01 | 1.12                      |
| 2000   | 1.52065 |       |       |      |                           | 640    | 1.53886 | 30.89 | 33.86 | 0.85 | 0.92                      |
| 1900   | 1.52176 |       |       |      |                           | 630    | 1.53921 | 37.60 | 41.22 | 0.71 | 0.74                      |
| 1800   | 1.52284 |       |       |      |                           | 620    | 1.53958 | 44.77 | 49.08 | 0.58 | 0.59                      |
| 1700   | 1.52389 |       |       |      |                           | 610    | 1.53997 | 52.05 | 57.06 | 0.47 | 0.45                      |
| 1600   | 1.52492 |       |       |      |                           | 600    | 1.54037 | 59.22 | 64.91 | 0.38 | 0.34                      |
| 1550   | 1.52543 |       |       |      |                           | 590    | 1.54080 | 65.97 | 72.30 | 0.30 | 0.25                      |
| 1500   | 1.52594 |       |       |      |                           | 580    | 1.54124 | 71.89 | 78.79 | 0.24 | 0.18                      |
| 1450   | 1.52645 |       |       |      |                           | 570    | 1.54170 | 76.96 | 84.34 | 0.19 | 0.13                      |
| 1400   | 1.52695 |       |       |      |                           | 560    | 1.54219 | 81.08 | 88.85 | 0.15 | 0.09                      |
| 1350   | 1.52747 |       |       |      |                           | 550    | 1.54271 | 84.18 | 92.24 | 0.12 | 0.06                      |
| 1300   | 1.52798 |       |       |      |                           | 540    | 1.54325 | 86.47 | 94.76 | 0.11 | 0.04                      |
| 1250   | 1.52851 |       |       |      |                           | 530    | 1.54383 | 88.04 | 96.49 | 0.09 | 0.03                      |
| 1200   | 1.52905 | 11.85 | 12.96 | 1.48 | 3.25                      | 520    | 1.54443 | 89.07 | 97.62 | 0.08 | 0.02                      |
| 1180   | 1.52927 | 10.20 | 11.15 | 1.65 | 3.43                      | 510    | 1.54507 | 89.54 | 98.16 | 0.08 | 0.01                      |
| 1160   | 1.52949 | 8.74  | 9.55  | 1.76 | 3.61                      | 500    | 1.54575 | 89.91 | 98.57 | 0.08 | 0.01                      |
| 1140   | 1.52971 | 7.43  | 8.12  | 1.88 | 3.80                      | 490    | 1.54648 | 89.87 | 98.55 | 0.08 | 0.01                      |
| 1120   | 1.52994 | 6.25  | 6.83  | 2.01 | 3.99                      | 480    | 1.54725 | 89.89 | 98.60 | 0.08 | 0.01                      |
| 1100   | 1.53018 | 5.28  | 5.77  | 2.13 | 4.16                      | 470    | 1.54807 | 89.73 | 98.44 | 0.08 | 0.01                      |
| 1080   | 1.53042 | 4.41  | 4.82  | 2.26 | 4.34                      | 460    | 1.54895 | 89.58 | 98.30 | 0.08 | 0.01                      |
| 1060   | 1.53066 | 3.64  | 3.98  | 2.40 | 4.53                      | 450    | 1.54989 | 89.40 | 98.12 | 0.08 | 0.01                      |
| 1040   | 1.53091 | 3.00  | 3.28  | 2.54 | 4.71                      | 440    | 1.55089 | 89.13 | 97.86 | 0.08 | 0.01                      |
| 1020   | 1.53117 | 2.46  | 2.69  | 2.68 | 4.89                      | 430    | 1.55198 | 88.85 | 97.58 | 0.09 | 0.01                      |
| 1000   | 1.53143 | 1.96  | 2.14  | 2.85 | 5.10                      | 420    | 1.55315 | 88.53 | 97.27 | 0.09 | 0.02                      |
| 990    | 1.53156 | 1.80  | 1.97  | 2.91 | 5.16                      | 410    | 1.55441 | 88.19 | 96.92 | 0.09 | 0.02                      |
| 980    | 1.53170 | 1.62  | 1.78  | 2.98 | 5.24                      | 400    | 1.55579 | 87.59 | 96.30 | 0.10 | 0.02                      |
| 970    | 1.53184 | 1.44  | 1.58  | 3.07 | 5.34                      | 390    | 1.55728 | 86.90 | 95.58 | 0.10 | 0.02                      |
| 960    | 1.53198 | 1.31  | 1.44  | 3.14 | 5.40                      | 380    | 1.55890 | 85.34 | 93.91 | 0.11 | 0.03                      |
| 950    | 1.53212 | 1.19  | 1.30  | 3.21 | 5.47                      | 370    | 1.56068 | 82.64 | 91.00 | 0.14 | 0.05                      |
| 940    | 1.53227 | 1.08  | 1.18  | 3.28 | 5.53                      | 360    | 1.56263 | 76.68 | 84.50 | 0.19 | 0.08                      |
| 930    | 1.53242 | 1.00  | 1.09  | 3.33 | 5.57                      | 350    | 1.56478 | 64.86 | 71.55 | 0.31 | 0.16                      |
| 920    | 1.53257 | 0.91  | 0.99  | 3.41 | 5.63                      | 340    | 1.56715 | 43.77 | 48.35 | 0.60 | 0.33                      |
| 910    | 1.53272 | 0.82  | 0.90  | 3.48 | 5.69                      | 330    | 1.56977 | 17.28 | 19.11 | 1.27 | 0.72                      |
| 900    | 1.53288 | 0.77  | 0.84  | 3.52 | 5.70                      | 320    | 1.57269 | 2.00  | 2.21  | 2.83 | 1.62                      |
| 890    | 1.53304 | 0.72  | 0.79  | 3.57 | 5.72                      | 310    | 1.57595 |       |       |      |                           |
| 880    | 1.53320 | 0.66  | 0.72  | 3.63 | 5.75                      | 300    | 1.57958 |       |       |      |                           |
| 870    | 1.53337 | 0.62  | 0.68  | 3.67 | 5.75                      |        |         |       |       |      |                           |
| 860    | 1.53354 | 0.59  | 0.64  | 3.72 | 5.75                      |        |         |       |       |      |                           |
| 850    | 1.53372 | 0.57  | 0.62  | 3.74 | 5.72                      |        |         |       |       |      |                           |
| 840    | 1.53390 | 0.57  | 0.62  | 3.74 | 5.66                      |        |         |       |       |      |                           |
| 830    | 1.53408 | 0.60  | 0.66  | 3.70 | 5.53                      |        |         |       |       |      |                           |
| 820    | 1.53427 | 0.64  | 0.70  | 3.66 | 5.39                      |        |         |       |       |      |                           |
| 810    | 1.53446 | 0.69  | 0.76  | 3.60 | 5.25                      |        |         |       |       |      |                           |
| 800    | 1.53466 | 0.75  | 0.82  | 3.54 | 5.10                      |        |         |       |       |      |                           |
| 790    | 1.53486 | 0.83  | 0.91  | 3.47 | 4.92                      |        |         |       |       |      |                           |
| 780    | 1.53507 | 0.97  | 1.06  | 3.35 | 4.70                      |        |         |       |       |      |                           |
| 770    | 1.53529 | 1.16  | 1.27  | 3.23 | 4.46                      |        |         |       |       |      |                           |
| 760    | 1.53551 | 1.42  | 1.55  | 3.08 | 4.20                      |        |         |       |       |      |                           |
| 750    | 1.53574 | 1.77  | 1.94  | 2.92 | 3.92                      |        |         |       |       |      |                           |
| 740    | 1.53598 | 2.26  | 2.48  | 2.74 | 3.63                      |        |         |       |       |      |                           |
| 730    | 1.53622 | 2.91  | 3.19  | 2.56 | 3.33                      |        |         |       |       |      |                           |
| 720    | 1.53648 | 3.82  | 4.18  | 2.36 | 3.03                      |        |         |       |       |      |                           |
| 710    | 1.53674 | 5.05  | 5.53  | 2.16 | 2.73                      |        |         |       |       |      |                           |
| 700    | 1.53701 | 6.67  | 7.30  | 1.96 | 2.43                      |        |         |       |       |      |                           |

Specific Gravity

d3.06

Chemical Properties

D<sub>W</sub>1

D<sub>A</sub>5

T<sub>Blue</sub>

D<sub>NaOH</sub>

D<sub>STPP</sub>

D<sub>0</sub>

D<sub>H</sub>

Thermal Properties

T<sub>g</sub>(°C)414

T<sub>s</sub>(°C)454

T<sub>10<sup>14.5</sup></sub>(°C)

T<sub>10<sup>13</sup></sub>(°C)

T<sub>10<sup>7.6</sup></sub>(°C)

α<sub>-30/+70°C</sub>(10<sup>-7</sup>/°C)125

α<sub>100/300°C</sub>(10<sup>-7</sup>/°C)146

λ[W/(m·K)]

C<sub>p</sub>[kJ/(kg·K)]

Mechanical Properties

H<sub>K</sub>340

F<sub>A</sub>490

E(GPa)

G(GPa)

μ

σ<sub>b</sub>(MPa)

Constants of dispersion formula

A<sub>0</sub>2.3403402E0

A<sub>1</sub>-7.7897068E-3

A<sub>2</sub>1.2843136E-2

A<sub>3</sub>-1.5180004E-4

A<sub>4</sub>3.6373859E-5

A<sub>5</sub>-1.2092365E-6

Refractive Index & νd

nC656.2731.53831

nd587.5621.5409

nF486.1331.54677

νd63.94

Chromaticity coordinates

Tτ

x0.2660.266

y0.3220.322

Transmittance ratio

Tτ

700nm/500nm0.0740.074

600nm/500nm0.6590.658

400nm/500nm0.9740.977

Remarks

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Date:2025.11.10

|       |                                   |   |  |  |  |  |
|-------|-----------------------------------|---|--|--|--|--|
| CU700 | Standard Thickness<br><br>t= 0.60 | : |  |  |  |  |
|       |                                   |   |  |  |  |  |

