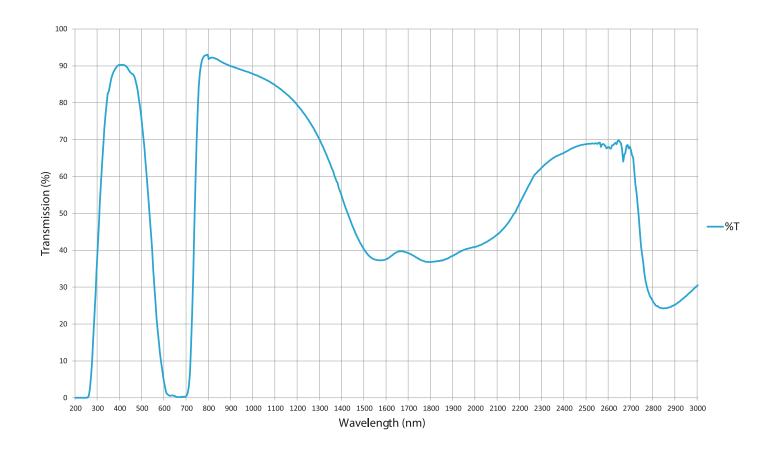
Optical Filters

Colour glass filter

Material / Specification: 538nm shortpass (Hoya B-410) **Range / Description:** 538FCS



KO BRINGING QUALITY INTO FOCUS

QUALITY APPROVED



KNIGHT OPTICAL

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Optical Filters

Colour glass filter

Material / Specification: 538nm shortpass (Hoya B-410) Range / Description: 538FCS

Title: Colour Glass Filter (Shortpass) Material / Specification: Hoya B-410 - 538nm Range / Description: 538CS

| | | | | | | | | | | | Catalog | Thickne | ess t= | 2.5 | mm | Reflec | tion Fac | ctor Pa | 0.930 | L. | Diagram | 1-2 | | B-41 | U |
|--------|-------|----------|----------|--------|----------|---------|-------|---------|------|-------|---------|----------------|--------|--------------|----------|--------|-----------|---------|------------------------|---------|---------------|--------|-----------------------------------|----------|-------------|
| | Tran | smittan | ce (T) 8 | Intern | al Trans | mittanc | e (T) | units : | (%) | | | | | | | | _ | | | | | | | | |
| λnm | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 | 390 | 400 | 410 | 420 | 430 | 440 |
| Т | | - (| | | | | .44 | 3.8 | 10.9 | 21.2 | 34.5 | 48.8 | 61.2 | 71.9 | 79.6 | 84.5 | 87.8 | 89.0 | 90.1 | 91.0 | 91.4 | 91.5 | 91.5 | 91.4 | 90. |
| τ | | | | | | | .47 | 4.1 | 11.7 | 22.8 | 37.1 | 52.5 | 65.8 | 77.3 | 85.6 | 90.9 | 94.4 | 95.7 | 96.9 | 97.8 | 98.3 | 98.4 | 98.4 | 98.3 | 97. |
| lom | 450 | 460 | 470 | 480 | 490 | 500 | 510 | 520 | 530 | 540 | 550 | 560 | 570 | 580 | 590 | 600 | 610 | 620 | 630 | 640 | 650 | 660 | 670 | 680 | 69 |
| T | 89.4 | 89.0 | 87.8 | 85.0 | 80.7 | 75.4 | 68.9 | 61.0 | 52.1 | 43.9 | 33.6 | 24.0 | 16.7 | 10.7 | 6.7 | 3.0 | 1.0 | .50 | .39 | .42 | .28 | .12 | .13 | .17 | .1 |
| τ | 96.1 | 95.7 | 94.4 | 91.4 | 86.8 | 81.1 | 74.1 | 65.6 | 56.0 | 47.2 | 36.1 | 25.8 | 18.0 | 11.5 | 7.2 | 3.2 | 1.1 | .54 | .42 | .45 | .30 | .13 | .14 | .18 | .1 |
| anan . | 700 | 710 | 720 | 730 | 740 | 750 | 800 | 850 | 900 | 950 | 1,000 | 1,100 | 1,200 | 1,300 | 1,400 | 1,500 | 1,600 | 1,700 | 1,800 | 1,900 | 2,000 | 2,100 | 2,200 | 2,300 | 2.4 |
| Т | .40 | 1.8 | 8.9 | 25.0 | 50.0 | 73.0 | 92.8 | 92.5 | 92.1 | 91.6 | 90.6 | 87.3 | 81.5 | 71.2 | 53.0 | 37.7 | 40.2 | 36.5 | 34.1 | 36.0 | 38.5 | 42.2 | 52.0 | 63.2 | 68. |
| 7 | .43 | 1.9 | 9.6 | 26.9 | 53.8 | 78.5 | 99.8 | 99.5 | 99.0 | 98.5 | 97.4 | 93.9 | 87.6 | 76.6 | 57.0 | 40.5 | 43.2 | 39.2 | 36.7 | 38.7 | 41.4 | 45.4 | 55.9 | 68.0 | 73. |
| | Refra | ctive In | dices | | | | | | | | | | | | | | | | | | | At | be-Num | ber | |
| Symb | ol | i h | | | g | F' | | F e | | | d | | | C' | C | | r A' | | t | | 1 | | | | |
| λnm | | 365.0 | 404. | 7 | 135.8 | 480. | 0 | 486.1 | 546. | 1 | 587.6 | 589. | 3 (| 643.8 | 656. | 3 7 | 06.5 | 768. | 2 1. | .014.0 | 1 | | $n_d = \frac{n_d}{n_d}$ | -1 =67 | |
| n | | 1.486 | 1.48 | 0 | 1.477 | 1.47 | 4 | 1.473 | 1.47 | 0 | 1.468 | 1.46 | 3 | 1.467 | 1.46 | 6 | | | | | | | n _F - | nc | |
| | Color | Specific | ations | _ | | | | | | Prope | rties | | | | 2007.050 | | | | Tol | laranca | J s of Tra | nemitt | ance (T) | | - |
| | | x | y | Y | A | | P. | 1 9 | Cher | | | The | mal | | Mech | anical | Other | | Wavele | ength | Maximu | Im Les | ss than 1 | % Less t | hant |
| A | .1 | 94 | .351 | 23.7 | 491 | | 62 | | Dw | DA | To | T _s | -30/70 | a 100/300 | Hĸ | FA | S | | for M Tran mitta | ns- | Trans | 8 | avelengt at Short- ave Side | atl | e Sid |
| С | 1 | 61 | 100 | | 40.1 | | 57 | | 3 | 4 | 410 | 500 | 70 | 79 | 420 | 120 | 2.27 | S. 8 | | | + 10 | | is1 (nm) | - | |
| | | | .199 | 32.3 | 481 | 2 | 10 | | 3 | | 410 | 500 | | | | | | 2 | ATmax | (nm) | Tmax (% | 01 1 | IST (IIIII) | C1A | (nm) |
| Des | - | 61 | .215 | 32.3 | 481 | | 56 | 1 | 3 | 4 | 410 | 500 | | | | | | | 410 ± | | 91 ± 3 | | 250 | | (nm) 500 |
| | .1 | - | .215 | | | | | | 3 | 4 | 410 | 500 | | | | | de a de l | | | | | | | | |
| | .1 | 61 | .215 | | | | | | | | 410 | | | | | | | | | | | | | | |
| | .1 | 61 | .215 | | | | | | | | 410 | 500 | | | | | | | | | | | | | |
| | .1 | 61 | .215 | | | | | | 3 | | 410 | 300 | | | | | | | | | | | | | 500 |
| | .1 | 61 | .215 | | | | | | 3 | | 410 | | | | | | | | | | | | | | (nm) 500 |
| | .1 | 61 | .215 | | | | | | 3 | | 410 | | | \int | | | | | | | | | | | 500 |
| | .1 | 61 | .215 | | | | | | 3 | | 410 | | | ſ | | | | | | | | | | | 500 |
| | .1 | 61 | .215 | | | | | | 3 | | 410 | | | | | | | | | | | | | | 500 |
| | .1 | 61 | .215 | | | | | | 3 | | 410 | | | ſ | | | | | | | | | | | 500 |
| | .1 | 61 | .215 | | | | | | 3 | | 410 | | | | | | | | | | | | | | 500 |
| | .1 | 61 | .215 | | | | | | 3 | | | | | | | | | | | | | | | | |
| | .1 | 61 | .215 | | | | | | 3 | | | | | | | | | | | | | | | | 500 |
| | .1 | 61 | .215 | | | | | | | | | | | | | | | | | | | | | | 500 |
| | .1 | 61 | .215 | | | | | | 3 | | | | | | | | | | | | | | | | 500 |
| | .1 | 61 | .215 | | | | | | 3 | | | | | | | | | | | | | | | | 500 |
| | .1 | 61 | .215 | | | | | | 3 | | | | | | | | | | | | | | | | 500 |

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