

**Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for P60,  $Y_{w,10}$ =100,  $Y_m$ =520\_770**

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $Y_{10}$ | $A_{10}$ | $B_{10}$ | $C_{AB,10}$ | $a_{10}$ | $b_{10}$ | $h_{AB,10}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|----------|----------|----------|-------------|----------|----------|-------------|------------------|------------------|------|
| 1 405            | 31 557           | 56.06    | −22.77   | −17.39   | 28.65       | 0.5647   | −0.7263  | 217.3       | 15 477           | 37 587           | Cm   |
| 7 435            | 31 559           | 56.56    | −28.95   | −4.15    | 29.25       | 0.459    | −0.4895  | 188.1       | 16 483           | −1 483c          |      |
| 9 450            | 32 561           | 57.37    | −32.01   | 3.34     | 32.18       | 0.4129   | −0.3577  | 174.0       | 17 489           | −1 489c          |      |
| 12 460           | 32 563           | 58.05    | −35.14   | 13.39    | 37.61       | 0.3655   | −0.1852  | 159.1       | 21 505           | −1 505c          |      |
| 13 465           | 33 566           | 59.57    | −35.64   | 16.63    | 39.33       | 0.3725   | −0.1368  | 154.9       | 22 514           | −1 514c          |      |
| 14 470           | 34 571           | 62.58    | −35.56   | 20.01    | 40.8        | 0.4027   | −0.0962  | 150.6       | 24 524           | −1 524c          |      |
| 14 475           | 36 580           | 69.18    | −34.58   | 22.75    | 41.4        | 0.4709   | −0.0871  | 146.6       | 26 531           | −1 531c          | Gm   |
| 15 480           | 41 605           | 82.76    | −25.44   | 30.04    | 39.37       | 0.6635   | −0.053   | 130.2       | 30 550           | −1 550c          |      |
| 16 485           | −1 484c          | 92.83    | −10.41   | 35.45    | 36.95       | 0.8587   | −0.0341  | 106.3       | 32 561           | 10 453           |      |
| 18 490           | −1 490c          | 89.72    | −7.57    | 35.7     | 36.49       | 0.8865   | −0.0181  | 101.9       | 32 563           | 11 458           | max  |
| 19 495           | −1 495c          | 87.78    | −5.71    | 35.36    | 35.82       | 0.9058   | −0.0131  | 99.1        | 32 564           | 12 461           |      |
| 20 500           | −1 500c          | 85.54    | −3.58    | 34.77    | 34.96       | 0.9291   | −0.0095  | 95.8        | 33 565           | 12 463           |      |
| 21 510           | −1 509c          | 82.98    | −1.2     | 33.95    | 33.97       | 0.9563   | −0.0068  | 92.0        | 33 566           | 12 464           |      |
| 24 520           | −1 520c          | 73.29    | 6.88     | 30.31    | 31.09       | 1.0648   | −0.0023  | 77.2        | 34 571           | 13 469           | Ym   |
| 26 530           | −1 530c          | 65.52    | 12.31    | 27.19    | 29.85       | 1.1589   | −0.0009  | 65.6        | 34 574           | 14 472           |      |
| 28 540           | −1 540c          | 57.09    | 17.17    | 23.73    | 29.3        | 1.2718   | −0.0002  | 54.1        | 35 578           | 14 474           |      |
| 29 545           | −1 545c          | 52.78    | 19.22    | 21.95    | 29.18       | 1.3351   | −0.0001  | 48.7        | 36 581           | 15 475           |      |
| 30 550           | −1 550c          | 48.45    | 20.93    | 20.16    | 29.06       | 1.4029   | 0.0      | 43.9        | 36 583           | 15 476           |      |
| 31 555           | −1 555c          | 44.14    | 22.26    | 18.36    | 28.86       | 1.4754   | 0.0      | 39.5        | 37 586           | 15 476           |      |
| 31 560           | 8 442            | 45.29    | 29.83    | 1.68     | 29.88       | 1.6295   | −0.3787  | 3.2         | −1 485c          | 17 485           |      |
| 31 557           | 1 405            | 43.93    | 22.77    | 17.39    | 28.65       | 1.4893   | −0.02    | 37.3        | 37 587           | 15 477           | Rm   |
| 31 559           | 7 435            | 43.43    | 28.95    | 4.15     | 29.25       | 1.6375   | −0.3204  | 8.1         | −1 483c          | 16 483           |      |
| 32 561           | 9 450            | 42.62    | 32.01    | −3.34    | 32.18       | 1.7219   | −0.4945  | 354.0       | −1 489c          | 17 489           |      |
| 32 563           | 12 460           | 41.94    | 35.14    | −13.39   | 37.61       | 1.8087   | −0.7354  | 339.1       | −1 505c          | 21 505           |      |
| 33 566           | 13 465           | 40.42    | 35.64    | −16.63   | 39.33       | 1.8527   | −0.8274  | 334.9       | −1 514c          | 22 514           |      |
| 34 571           | 14 470           | 37.41    | 35.56    | −20.01   | 40.8        | 1.9215   | −0.951   | 330.6       | −1 524c          | 24 524           |      |
| 36 580           | 14 475           | 30.81    | 34.58    | −22.75   | 41.4        | 2.0932   | −1.1545  | 326.6       | −1 531c          | 26 531           | Mm   |
| 41 605           | 15 480           | 17.23    | 25.44    | −30.04   | 39.37       | 2.4477   | −2.1598  | 310.2       | −1 550c          | 30 550           |      |
| −1 484c          | 16 485           | 7.16     | 10.41    | −35.45   | 36.95       | 2.4246   | −5.3649  | 286.3       | 10 453           | 32 561           |      |
| −1 490c          | 18 490           | 10.27    | 7.57     | −35.7    | 36.49       | 1.7082   | −3.8917  | 281.9       | 11 458           | 32 563           | min  |
| −1 495c          | 19 495           | 12.21    | 5.71     | −35.36   | 35.82       | 1.4388   | −3.3127  | 279.1       | 12 461           | 32 564           |      |
| −1 500c          | 20 500           | 14.45    | 3.57     | −34.77   | 34.96       | 1.2186   | −2.8226  | 275.8       | 12 463           | 33 565           |      |
| −1 509c          | 21 510           | 17.01    | 1.2      | −33.95   | 33.97       | 1.0419   | −2.4114  | 272.0       | 12 464           | 33 566           |      |
| −1 520c          | 24 520           | 26.7     | −6.88    | −30.31   | 31.09       | 0.7132   | −1.5512  | 257.2       | 13 469           | 34 571           | Bm   |
| −1 530c          | 26 530           | 34.47    | −12.31   | −27.19   | 29.85       | 0.6137   | −1.2049  | 245.6       | 14 472           | 34 574           |      |
| −1 540c          | 28 540           | 42.9     | −17.18   | −23.73   | 29.3        | 0.5705   | −0.9693  | 234.1       | 14 474           | 35 578           |      |
| −1 545c          | 29 545           | 47.21    | −19.22   | −21.95   | 29.18       | 0.5638   | −0.881   | 228.7       | 15 475           | 36 581           |      |
| −1 550c          | 30 550           | 51.54    | −20.93   | −20.16   | 29.06       | 0.5647   | −0.8071  | 223.9       | 15 476           | 36 583           |      |
| −1 555c          | 31 555           | 55.85    | −22.26   | −18.36   | 28.86       | 0.5722   | −0.7448  | 219.5       | 15 476           | 37 586           |      |
| 8 442            | 31 560           | 54.7     | −29.83   | −1.68    | 29.88       | 0.4255   | −0.4469  | 183.2       | 17 485           | −1 485c          |      |
| 380              | 770              | 99.99    | 0.0      | 0.0      | 0.01        | 0.9709   | −0.416   | 0.0         |                  |                  |      |

**Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for P55,  $Y_{w,10}$ =100,  $Y_m$ =520\_770**

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $Y_{10}$ | $A_{10}$ | $B_{10}$ | $C_{AB,10}$ | $a_{10}$ | $b_{10}$ | $h_{AB,10}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|----------|----------|----------|-------------|----------|----------|-------------|------------------|------------------|------|
| 0 405            | 31 558           | 55.84    | -23.47   | -16.54   | 28.71       | 0.5561   | -0.6784  | 215.1       | 15 477           | 37 587           | Cm   |
| 7 435            | 32 560           | 56.27    | -29.2    | -4.25    | 29.51       | 0.4574   | -0.4578  | 188.2       | 16 484           | -1 484c          |      |
| 10 450           | 32 561           | 56.6     | -33.03   | 5.63     | 33.51       | 0.3929   | -0.2825  | 170.3       | 18 493           | -1 493c          |      |
| 12 460           | 32 564           | 57.63    | -34.85   | 11.84    | 36.8        | 0.3718   | -0.1766  | 161.2       | 21 505           | -1 505c          |      |
| 12 465           | 33 566           | 59.72    | -35.02   | 12.64    | 37.24       | 0.3901   | -0.1704  | 160.1       | 21 507           | -1 507c          |      |
| 14 470           | 34 571           | 61.75    | -35.21   | 17.85    | 39.48       | 0.4062   | -0.0931  | 153.1       | 24 523           | -1 523c          |      |
| 15 475           | 35 579           | 66.7     | -33.91   | 21.28    | 40.03       | 0.4681   | -0.063   | 147.8       | 26 533           | -1 533c          | Gm   |
| 16 480           | 39 599           | 78.29    | -26.73   | 26.87    | 37.91       | 0.635    | -0.0389  | 134.8       | 29 548           | -1 548c          |      |
| 16 485           | -1 484c          | 93.33    | -9.33    | 32.62    | 33.93       | 0.8765   | -0.0327  | 105.9       | 32 562           | 10 454           |      |
| 17 490           | -1 489c          | 91.95    | -8.11    | 32.94    | 33.93       | 0.8882   | -0.0239  | 103.8       | 32 563           | 11 456           | max  |
| 19 495           | -1 495c          | 88.5     | -4.8     | 32.7     | 33.05       | 0.9222   | -0.0127  | 98.3        | 33 565           | 12 461           |      |
| 20 500           | -1 500c          | 86.34    | -2.73    | 32.2     | 32.31       | 0.9448   | -0.0092  | 94.8        | 33 566           | 12 463           |      |
| 22 510           | -1 510c          | 81.02    | 2.09     | 30.57    | 30.65       | 1.0024   | -0.0048  | 86.0        | 33 568           | 13 467           |      |
| 24 520           | -1 520c          | 74.38    | 7.53     | 28.25    | 29.24       | 1.0777   | -0.0023  | 75.0        | 34 571           | 14 470           | Ym   |
| 25 530           | -1 529c          | 70.66    | 10.26    | 26.89    | 28.79       | 1.1218   | -0.0015  | 69.1        | 34 573           | 14 471           |      |
| 27 540           | -1 539c          | 62.6     | 15.46    | 23.89    | 28.46       | 1.2236   | -0.0005  | 57.0        | 35 577           | 14 474           |      |
| 28 545           | -1 544c          | 58.35    | 17.8     | 22.28    | 28.52       | 1.2817   | -0.0002  | 51.3        | 35 579           | 15 475           |      |
| 29 550           | -1 549c          | 54.04    | 19.87    | 20.65    | 28.66       | 1.3442   | 0.0      | 46.1        | 36 581           | 15 475           |      |
| 31 555           | -1 555c          | 45.37    | 22.97    | 17.34    | 28.78       | 1.4829   | 0.0      | 37.0        | 37 586           | 15 477           |      |
| 32 560           | 6 430            | 41.55    | 27.67    | 7.79     | 28.75       | 1.6425   | -0.1946  | 15.7        | 45 629           | 16 482           |      |
| 31 558           | 0 405            | 44.15    | 23.47    | 16.54    | 28.71       | 1.5082   | -0.0075  | 35.1        | 37 587           | 15 477           | Rm   |
| 32 560           | 7 435            | 43.72    | 29.2     | 4.25     | 29.51       | 1.6445   | -0.2849  | 8.2         | -1 484c          | 16 484           |      |
| 32 561           | 10 450           | 43.39    | 33.03    | -5.63    | 33.51       | 1.7378   | -0.5121  | 350.3       | -1 493c          | 18 493           |      |
| 32 564           | 12 460           | 42.36    | 34.85    | -11.84   | 36.8        | 1.7991   | -0.6619  | 341.2       | -1 505c          | 21 505           |      |
| 33 566           | 12 465           | 40.27    | 35.02    | -12.64   | 37.24       | 1.8463   | -0.6963  | 340.1       | -1 507c          | 21 507           |      |
| 34 571           | 14 470           | 38.24    | 35.21    | -17.85   | 39.48       | 1.8972   | -0.8489  | 333.1       | -1 523c          | 24 523           |      |
| 35 579           | 15 475           | 33.29    | 33.91    | -21.28   | 40.03       | 1.995    | -1.0215  | 327.8       | -1 533c          | 26 533           | Mm   |
| 39 599           | 16 480           | 21.7     | 26.73    | -26.87   | 37.91       | 2.2087   | -1.6206  | 314.8       | -1 548c          | 29 548           |      |
| -1 484c          | 16 485           | 6.66     | 9.33     | -32.62   | 33.93       | 2.3771   | -5.2753  | 285.9       | 10 454           | 32 562           |      |
| -1 489c          | 17 490           | 8.04     | 8.11     | -32.94   | 33.93       | 1.9859   | -4.4787  | 283.8       | 11 456           | 32 563           | min  |
| -1 495c          | 19 495           | 11.49    | 4.8      | -32.7    | 33.05       | 1.3948   | -3.2265  | 278.3       | 12 461           | 33 565           |      |
| -1 500c          | 20 500           | 13.65    | 2.73     | -32.2    | 32.31       | 1.177    | -2.7397  | 274.8       | 12 463           | 33 566           |      |
| -1 510c          | 22 510           | 18.97    | -2.09    | -30.57   | 30.65       | 0.8661   | -1.9939  | 266.0       | 13 467           | 33 568           |      |
| -1 520c          | 24 520           | 25.61    | -7.53    | -28.25   | 29.24       | 0.6825   | -1.4854  | 255.0       | 14 470           | 34 571           | Bm   |
| -1 529c          | 25 530           | 29.33    | -10.26   | -26.89   | 28.79       | 0.6265   | -1.2992  | 249.1       | 14 471           | 34 573           |      |
| -1 539c          | 27 540           | 37.39    | -15.46   | -23.89   | 28.46       | 0.5629   | -1.021   | 237.0       | 14 474           | 35 577           |      |
| -1 544c          | 28 545           | 41.64    | -17.8    | -22.28   | 28.52       | 0.5489   | -0.9173  | 231.3       | 15 475           | 35 579           |      |
| -1 549c          | 29 550           | 45.95    | -19.87   | -20.65   | 28.66       | 0.5441   | -0.8315  | 226.1       | 15 475           | 36 581           |      |
| -1 555c          | 31 555           | 54.62    | -22.97   | -17.34   | 28.78       | 0.5559   | -0.6996  | 217.0       | 15 477           | 37 586           |      |
| 6 430            | 32 560           | 58.44    | -27.67   | -7.79    | 28.75       | 0.503    | -0.5155  | 195.7       | 16 482           | 45 629           |      |
| 380              | 770              | 100.0    | 0.0      | 0.0      | 0.01        | 0.9765   | -0.3822  | 0.0         |                  |                  |      |

**Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for P50,  $Y_{w,10}$ =100,  $Y_m$ =520\_770**

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $Y_{10}$ | $A_{10}$ | $B_{10}$ | $C_{AB,10}$ | $a_{10}$ | $b_{10}$ | $h_{AB,10}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|----------|----------|----------|-------------|----------|----------|-------------|------------------|------------------|------|
| 1 405            | 32 560           | 55.5     | -24.72   | -14.69   | 28.76       | 0.5395   | -0.6093  | 210.7       | 15 479           | 37 589           | Cm   |
| 7 435            | 32 561           | 55.89    | -29.47   | -4.31    | 29.79       | 0.4577   | -0.4219  | 188.3       | 17 485           | -1 485c          |      |
| 9 450            | 32 562           | 56.57    | -31.94   | 1.77     | 31.99       | 0.4204   | -0.3133  | 176.8       | 18 490           | -1 490c          |      |
| 12 460           | 33 565           | 57.12    | -34.56   | 10.18    | 36.03       | 0.38     | -0.1664  | 163.5       | 21 505           | -1 505c          |      |
| 13 465           | 33 567           | 58.35    | -34.91   | 12.83    | 37.2        | 0.3867   | -0.1246  | 159.8       | 22 513           | -1 513c          |      |
| 14 470           | 34 571           | 60.79    | -34.86   | 15.52    | 38.16       | 0.4116   | -0.0892  | 155.9       | 24 523           | -1 523c          |      |
| 14 475           | 35 578           | 66.09    | -34.27   | 17.35    | 38.42       | 0.4665   | -0.082   | 153.1       | 25 529           | -1 529c          | Gm   |
| 16 480           | 38 593           | 74.98    | -28.52   | 22.93    | 36.6        | 0.6047   | -0.0387  | 141.1       | 29 546           | -1 546c          |      |
| 17 485           | -1 485c          | 92.59    | -6.99    | 29.81    | 30.62       | 0.9095   | -0.0227  | 103.2       | 32 564           | 11 457           |      |
| 18 490           | -1 490c          | 91.09    | -5.55    | 29.87    | 30.39       | 0.9241   | -0.0166  | 100.5       | 33 565           | 11 459           | max  |
| 18 495           | -1 494c          | 91.09    | -5.55    | 29.87    | 30.39       | 0.9241   | -0.0166  | 100.5       | 33 565           | 11 459           |      |
| 20 500           | -1 500c          | 87.25    | -1.83    | 29.3     | 29.35       | 0.9641   | -0.0088  | 93.5        | 33 566           | 12 464           |      |
| 22 510           | -1 510c          | 82.13    | 2.87     | 27.92    | 28.07       | 1.02     | -0.0046  | 84.1        | 33 569           | 13 467           |      |
| 24 520           | -1 520c          | 75.67    | 8.21     | 25.91    | 27.18       | 1.0936   | -0.0022  | 72.4        | 34 572           | 14 470           | Ym   |
| 26 530           | -1 530c          | 68.14    | 13.57    | 23.42    | 27.07       | 1.1843   | -0.0009  | 59.9        | 35 575           | 14 473           |      |
| 28 540           | -1 540c          | 59.85    | 18.48    | 20.61    | 27.68       | 1.2938   | -0.0002  | 48.1        | 35 579           | 15 475           |      |
| 29 545           | -1 545c          | 55.55    | 20.57    | 19.14    | 28.1        | 1.3554   | 0.0      | 42.9        | 36 581           | 15 476           |      |
| 30 550           | -1 550c          | 51.21    | 22.35    | 17.65    | 28.48       | 1.4215   | 0.0      | 38.2        | 36 584           | 15 477           |      |
| 31 555           | -1 555c          | 46.85    | 23.76    | 16.15    | 28.73       | 1.4922   | 0.0      | 34.2        | 37 586           | 15 478           |      |
| 32 560           | -1 560c          | 42.52    | 24.74    | 14.65    | 28.76       | 1.567    | 0.0      | 30.6        | 37 589           | 15 479           |      |
| 32 560           | 1 405            | 44.49    | 24.72    | 14.69    | 28.76       | 1.5407   | -0.0145  | 30.7        | 37 589           | 15 479           | Rm   |
| 32 561           | 7 435            | 44.1     | 29.47    | 4.31     | 29.79       | 1.6535   | -0.2467  | 8.3         | -1 485c          | 17 485           |      |
| 32 562           | 9 450            | 43.42    | 31.94    | -1.77    | 31.99       | 1.7207   | -0.3854  | 356.8       | -1 490c          | 18 490           |      |
| 33 565           | 12 460           | 42.87    | 34.56    | -10.18   | 36.03       | 1.7913   | -0.5821  | 343.5       | -1 505c          | 21 505           |      |
| 33 567           | 13 465           | 41.64    | 34.91    | -12.83   | 37.2        | 1.8235   | -0.6529  | 339.8       | -1 513c          | 22 513           |      |
| 34 571           | 14 470           | 39.2     | 34.86    | -15.52   | 38.16       | 1.8742   | -0.7407  | 335.9       | -1 523c          | 24 523           |      |
| 35 578           | 14 475           | 33.9     | 34.27    | -17.35   | 38.42       | 1.9961   | -0.8566  | 333.1       | -1 529c          | 25 529           | Mm   |
| 38 593           | 16 480           | 25.01    | 28.52    | -22.93   | 36.6        | 2.1253   | -1.2617  | 321.1       | -1 546c          | 29 546           |      |
| -1 485c          | 17 485           | 7.4      | 6.99     | -29.81   | 30.62       | 1.9306   | -4.373   | 283.2       | 11 457           | 32 564           |      |
| -1 490c          | 18 490           | 8.9      | 5.55     | -29.87   | 30.39       | 1.6088   | -3.699   | 280.5       | 11 459           | 33 565           | min  |
| -1 494c          | 18 495           | 8.9      | 5.55     | -29.87   | 30.39       | 1.6088   | -3.699   | 280.5       | 11 459           | 33 565           |      |
| -1 500c          | 20 500           | 12.74    | 1.83     | -29.3    | 29.35       | 1.1287   | -2.6431  | 273.5       | 12 464           | 33 566           |      |
| -1 510c          | 22 510           | 17.86    | -2.87    | -27.92   | 28.07       | 0.8244   | -1.9076  | 264.1       | 13 467           | 33 569           |      |
| -1 520c          | 24 520           | 24.32    | -8.21    | -25.91   | 27.18       | 0.6475   | -1.4096  | 252.4       | 14 470           | 34 572           | Bm   |
| -1 530c          | 26 530           | 31.85    | -13.57   | -23.42   | 27.07       | 0.5588   | -1.0801  | 239.9       | 14 473           | 35 575           |      |
| -1 540c          | 28 540           | 40.14    | -18.48   | -20.61   | 27.68       | 0.5247   | -0.8581  | 228.1       | 15 475           | 35 579           |      |
| -1 545c          | 29 545           | 44.44    | -20.57   | -19.14   | 28.1        | 0.5221   | -0.7754  | 222.9       | 15 476           | 36 581           |      |
| -1 550c          | 30 550           | 48.78    | -22.35   | -17.65   | 28.48       | 0.5268   | -0.7065  | 218.2       | 15 477           | 36 584           |      |
| -1 555c          | 31 555           | 53.14    | -23.76   | -16.15   | 28.73       | 0.5379   | -0.6486  | 214.2       | 15 478           | 37 586           |      |
| -1 560c          | 32 560           | 57.47    | -24.74   | -14.65   | 28.76       | 0.5544   | -0.5997  | 210.6       | 15 479           | 37 589           |      |
| 380              | 770              | 99.99    | 0.0      | 0.0      | 0.01        | 0.9851   | -0.3446  | 0.0         |                  |                  |      |

**Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for P45,  $Y_{w,10}$ =100,  $Y_m$ =520\_770**

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $Y_{10}$ | $A_{10}$ | $B_{10}$ | $C_{AB,10}$ | $a_{10}$ | $b_{10}$ | $h_{AB,10}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|----------|----------|----------|-------------|----------|----------|-------------|------------------|------------------|------|
| 1 405            | 32 561           | 55.06    | -25.82   | -13.09   | 28.95       | 0.5291   | -0.5411  | 206.8       | 16 480           | 38 590           | Cm   |
| 7 435            | 32 562           | 55.42    | -29.85   | -4.31    | 30.16       | 0.4594   | -0.381   | 188.2       | 17 486           | -1 486c          |      |
| 10 450           | 32 564           | 55.71    | -32.86   | 3.43     | 33.04       | 0.4081   | -0.2415  | 174.0       | 18 494           | -1 494c          |      |
| 11 460           | 33 566           | 56.99    | -33.77   | 6.28     | 34.35       | 0.4054   | -0.193   | 169.4       | 19 499           | -1 499c          |      |
| 13 465           | 33 568           | 57.58    | -34.57   | 10.74    | 36.2        | 0.3976   | -0.1166  | 162.7       | 22 513           | -1 513c          |      |
| 13 470           | 34 571           | 60.41    | -34.65   | 11.6     | 36.54       | 0.4243   | -0.1111  | 161.4       | 23 516           | -1 516c          |      |
| 15 475           | 35 577           | 63.43    | -33.64   | 15.5     | 37.04       | 0.4676   | -0.0587  | 155.2       | 26 532           | -1 532c          | Gm   |
| 15 480           | 37 589           | 72.59    | -30.72   | 18.28    | 35.75       | 0.5747   | -0.0513  | 149.2       | 28 542           | -1 542c          |      |
| 17 485           | 51 659           | 92.6     | -6.91    | 26.08    | 26.98       | 0.9233   | -0.0215  | 104.8       | 32 564           | 10 454           |      |
| 18 490           | -1 490c          | 91.92    | -4.42    | 26.42    | 26.79       | 0.9499   | -0.0157  | 99.4        | 33 566           | 12 460           | max  |
| 19 495           | -1 495c          | 90.26    | -2.77    | 26.32    | 26.47       | 0.9672   | -0.0115  | 96.0        | 33 566           | 12 462           |      |
| 20 500           | -1 500c          | 88.3     | -0.86    | 26.03    | 26.04       | 0.9882   | -0.0084  | 91.9        | 33 567           | 12 464           |      |
| 22 510           | -1 510c          | 83.42    | 3.68     | 24.92    | 25.19       | 1.0421   | -0.0044  | 81.6        | 34 570           | 13 468           |      |
| 23 520           | -1 519c          | 80.46    | 6.24     | 24.14    | 24.94       | 1.0756   | -0.0031  | 75.4        | 34 571           | 14 470           | Ym   |
| 25 530           | -1 529c          | 73.64    | 11.59    | 22.22    | 25.06       | 1.1555   | -0.0014  | 62.4        | 34 574           | 14 473           |      |
| 27 540           | -1 539c          | 65.84    | 16.79    | 19.93    | 26.06       | 1.2531   | -0.0005  | 49.8        | 35 578           | 15 475           |      |
| 29 545           | -1 545c          | 57.39    | 21.31    | 17.39    | 27.51       | 1.3694   | 0.0      | 39.2        | 36 582           | 15 477           |      |
| 29 550           | -1 549c          | 57.39    | 21.31    | 17.39    | 27.51       | 1.3694   | 0.0      | 39.2        | 36 582           | 15 477           |      |
| 30 555           | -1 554c          | 53.06    | 23.15    | 16.08    | 28.19       | 1.4343   | 0.0      | 34.7        | 36 584           | 15 478           |      |
| 32 560           | -1 560c          | 44.31    | 25.67    | 13.43    | 28.97       | 1.5774   | 0.0      | 27.6        | 38 590           | 16 480           |      |
| 32 561           | 1 405            | 44.93    | 25.82    | 13.09    | 28.95       | 1.5726   | -0.0117  | 26.8        | 38 590           | 16 480           | Rm   |
| 32 562           | 7 435            | 44.57    | 29.85    | 4.31     | 30.16       | 1.6678   | -0.2063  | 8.2         | -1 486c          | 17 486           |      |
| 32 564           | 10 450           | 44.28    | 32.86    | -3.43    | 33.04       | 1.7401   | -0.3808  | 354.0       | -1 494c          | 18 494           |      |
| 33 566           | 11 460           | 43.0     | 33.77    | -6.28    | 34.35       | 1.7833   | -0.4492  | 349.4       | -1 499c          | 19 499           |      |
| 33 568           | 13 465           | 42.41    | 34.57    | -10.74   | 36.2        | 1.8131   | -0.5565  | 342.7       | -1 513c          | 22 513           |      |
| 34 571           | 13 470           | 39.58    | 34.65    | -11.6    | 36.54       | 1.8735   | -0.5963  | 341.4       | -1 516c          | 23 516           |      |
| 35 577           | 15 475           | 36.56    | 33.64    | -15.5    | 37.04       | 1.9179   | -0.7272  | 335.2       | -1 532c          | 26 532           | Mm   |
| 37 589           | 15 480           | 27.4     | 30.72    | -18.28   | 35.75       | 2.119    | -0.9702  | 329.2       | -1 542c          | 28 542           |      |
| 51 659           | 17 485           | 7.39     | 6.91     | -26.08   | 26.98       | 1.933    | -3.8322  | 284.8       | 10 454           | 32 564           |      |
| -1 490c          | 18 490           | 8.07     | 4.42     | -26.42   | 26.79       | 1.5454   | -3.5757  | 279.4       | 12 460           | 33 566           | min  |
| -1 495c          | 19 495           | 9.73     | 2.77     | -26.32   | 26.47       | 1.2833   | -3.0066  | 276.0       | 12 462           | 33 566           |      |
| -1 500c          | 20 500           | 11.69    | 0.86     | -26.03   | 26.04       | 1.0721   | -2.5295  | 271.9       | 12 464           | 33 567           |      |
| -1 510c          | 22 510           | 16.57    | -3.68    | -24.92   | 25.19       | 0.776    | -1.807   | 261.6       | 13 468           | 34 570           |      |
| -1 519c          | 23 520           | 19.53    | -6.24    | -24.14   | 24.94       | 0.6782   | -1.5393  | 255.4       | 14 470           | 34 571           | Bm   |
| -1 529c          | 25 530           | 26.35    | -11.59   | -22.22   | 25.06       | 0.5579   | -1.1464  | 242.4       | 14 473           | 34 574           |      |
| -1 539c          | 27 540           | 34.15    | -16.79   | -19.93   | 26.06       | 0.5063   | -0.8866  | 229.8       | 15 475           | 35 578           |      |
| -1 545c          | 29 545           | 42.6     | -21.31   | -17.39   | 27.51       | 0.4975   | -0.7116  | 219.2       | 15 477           | 36 582           |      |
| -1 549c          | 29 550           | 42.6     | -21.31   | -17.39   | 27.51       | 0.4975   | -0.7116  | 219.2       | 15 477           | 36 582           |      |
| -1 554c          | 30 555           | 46.93    | -23.15   | -16.08   | 28.19       | 0.5047   | -0.646   | 214.7       | 15 478           | 36 584           |      |
| -1 560c          | 32 560           | 55.68    | -25.67   | -13.43   | 28.97       | 0.5369   | -0.5445  | 207.6       | 16 480           | 38 590           |      |
| 380              | 770              | 100.0    | 0.0      | 0.0      | 0.01        | 0.998    | -0.3032  | 0.0         |                  |                  |      |

**Ostwald optimal colours (o) of maximum (m) C<sub>AB,10</sub> for P40, Y<sub>w,10</sub>=100, Y<sub>m</sub>=520\_770**

| i <sub>1</sub> , λ <sub>1</sub> | i <sub>2</sub> , λ <sub>2</sub> | Y <sub>10</sub> | A <sub>10</sub> | B <sub>10</sub> | C <sub>AB,10</sub> | a <sub>10</sub> | b <sub>10</sub> | h <sub>AB,10</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |
|---------------------------------|---------------------------------|-----------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|---------------------------------|---------------------------------|------|
| 0 405                           | 32 563                          | 54.51           | −26.99          | −11.55          | 29.36              | 0.5223          | −0.4697         | 203.1              | 16 481                          | 38 591                          | Cm   |
| 7 435                           | 32 564                          | 54.82           | −30.38          | −4.21           | 30.67              | 0.4633          | −0.3347         | 187.9              | 17 487                          | −1 487c                         |      |
| 10 450                          | 33 565                          | 55.07           | −32.85          | 2.3             | 32.93              | 0.4209          | −0.216          | 175.9              | 19 495                          | −1 495c                         |      |
| 12 460                          | 33 567                          | 55.74           | −33.98          | 6.54            | 34.61              | 0.4078          | −0.1403         | 169.0              | 21 505                          | −1 505c                         |      |
| 12 465                          | 33 568                          | 57.17           | −34.12          | 6.91            | 34.81              | 0.4206          | −0.1368         | 168.5              | 21 506                          | −1 506c                         |      |
| 14 470                          | 34 571                          | 58.4            | −34.2           | 10.47           | 35.77              | 0.4318          | −0.0784         | 162.9              | 24 521                          | −1 521c                         |      |
| 15 475                          | 35 576                          | 61.5            | −33.53          | 12.44           | 35.76              | 0.4722          | −0.0555         | 159.6              | 26 531                          | −1 531c                         | Gm   |
| 16 480                          | 37 585                          | 67.98           | −30.99          | 15.0            | 34.43              | 0.5616          | −0.0371         | 154.1              | 28 542                          | −1 542c                         |      |
| 17 485                          | 42 611                          | 82.81           | −18.97          | 19.49           | 27.2               | 0.7884          | −0.0223         | 134.2              | 31 558                          | −1 558c                         |      |
| 17 490                          | −1 489c                         | 94.15           | −4.49           | 22.42           | 22.86              | 0.9698          | −0.0196         | 101.3              | 33 566                          | 11 458                          | max  |
| 19 495                          | −1 495c                         | 91.34           | −1.68           | 22.56           | 22.62              | 0.9991          | −0.0107         | 94.2               | 33 568                          | 12 463                          |      |
| 20 500                          | −1 500c                         | 89.52           | 0.12            | 22.37           | 22.37              | 1.0189          | −0.0078         | 89.6               | 33 569                          | 13 465                          |      |
| 22 510                          | −1 510c                         | 84.94           | 4.48            | 21.54           | 22.0               | 1.0703          | −0.0041         | 78.2               | 34 571                          | 13 469                          |      |
| 23 520                          | −1 519c                         | 82.13           | 6.97            | 20.92           | 22.06              | 1.1024          | −0.0029         | 71.5               | 34 572                          | 14 471                          | Ym   |
| 25 530                          | −1 529c                         | 75.59           | 12.23           | 19.38           | 22.92              | 1.1794          | −0.0013         | 57.7               | 35 575                          | 14 474                          |      |
| 28 540                          | −1 540c                         | 63.89           | 19.86           | 16.45           | 25.79              | 1.3284          | −0.0002         | 39.6               | 36 581                          | 15 477                          |      |
| 28 545                          | −1 544c                         | 63.89           | 19.86           | 16.45           | 25.79              | 1.3284          | −0.0002         | 39.6               | 36 581                          | 15 477                          |      |
| 30 550                          | −1 550c                         | 55.35           | 23.97           | 14.26           | 27.89              | 1.4506          | 0.0             | 30.7               | 37 585                          | 15 479                          |      |
| 31 555                          | −1 555c                         | 50.95           | 25.53           | 13.13           | 28.71              | 1.5185          | 0.0             | 27.2               | 37 587                          | 16 480                          |      |
| 31 560                          | −1 559c                         | 50.95           | 25.53           | 13.13           | 28.71              | 1.5185          | 0.0             | 27.2               | 37 587                          | 16 480                          |      |
| 32 563                          | 0 405                           | 45.48           | 26.99           | 11.55           | 29.36              | 1.6108          | −0.0037         | 23.1               | 38 591                          | 16 481                          | Rm   |
| 32 564                          | 7 435                           | 45.17           | 30.38           | 4.21            | 30.67              | 1.69            | −0.1644         | 7.9                | −1 487c                         | 17 487                          |      |
| 33 565                          | 10 450                          | 44.92           | 32.85           | −2.3            | 32.93              | 1.7488          | −0.309          | 355.9              | −1 495c                         | 19 495                          |      |
| 33 567                          | 12 460                          | 44.25           | 33.98           | −6.54           | 34.61              | 1.7854          | −0.4057         | 349.0              | −1 505c                         | 21 505                          |      |
| 33 568                          | 12 465                          | 42.82           | 34.12           | −6.91           | 34.81              | 1.8142          | −0.4192         | 348.5              | −1 506c                         | 21 506                          |      |
| 34 571                          | 14 470                          | 41.59           | 34.2            | −10.47          | 35.77              | 1.8399          | −0.5096         | 342.9              | −1 521c                         | 24 521                          |      |
| 35 576                          | 15 475                          | 38.49           | 33.53           | −12.44          | 35.76              | 1.8886          | −0.5809         | 339.6              | −1 531c                         | 26 531                          | Mm   |
| 37 585                          | 16 480                          | 32.01           | 30.99           | −15.0           | 34.43              | 1.9856          | −0.7264         | 334.1              | −1 542c                         | 28 542                          |      |
| 42 611                          | 17 485                          | 17.18           | 18.97           | −19.49          | 27.2               | 2.1216          | −1.3924         | 314.2              | −1 558c                         | 31 558                          |      |
| −1 489c                         | 17 490                          | 5.84            | 4.49            | −22.42          | 22.86              | 1.7863          | −4.0958         | 281.3              | 11 458                          | 33 566                          | min  |
| −1 495c                         | 19 495                          | 8.65            | 1.67            | −22.56          | 22.62              | 1.2115          | −2.8646         | 274.2              | 12 463                          | 33 568                          |      |
| −1 500c                         | 20 500                          | 10.47           | −0.12           | −22.37          | 22.37              | 1.0051          | −2.3947         | 269.6              | 13 465                          | 33 569                          |      |
| −1 510c                         | 22 510                          | 15.05           | −4.48           | −21.54          | 22.0               | 0.7194          | −1.6888         | 258.2              | 13 469                          | 34 571                          |      |
| −1 519c                         | 23 520                          | 17.86           | −6.97           | −20.92          | 22.06              | 0.6269          | −1.4294         | 251.5              | 14 471                          | 34 572                          | Bm   |
| −1 529c                         | 25 530                          | 24.4            | −12.23          | −19.38          | 22.92              | 0.516           | −1.0518         | 237.7              | 14 474                          | 35 575                          |      |
| −1 540c                         | 28 540                          | 36.1            | −19.86          | −16.45          | 25.79              | 0.4671          | −0.7135         | 219.6              | 15 477                          | 36 581                          |      |
| −1 544c                         | 28 545                          | 36.1            | −19.86          | −16.45          | 25.79              | 0.4671          | −0.7135         | 219.6              | 15 477                          | 36 581                          |      |
| −1 550c                         | 30 550                          | 44.64           | −23.97          | −14.26          | 27.89              | 0.4805          | −0.5773         | 210.7              | 15 479                          | 37 585                          |      |
| −1 555c                         | 31 555                          | 49.04           | −25.53          | −13.13          | 28.71              | 0.4968          | −0.5256         | 207.2              | 16 480                          | 37 587                          |      |
| −1 559c                         | 31 560                          | 49.04           | −25.53          | −13.13          | 28.71              | 0.4968          | −0.5256         | 207.2              | 16 480                          | 37 587                          |      |
| 380                             | 770                             | 100.0           | 0.0             | 0.0             | 0.01               | 1.0175          | −0.2577         | 0.0                |                                 |                                 |      |

**Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for P35,  $Y_{w,10}$ =100,  $Y_m$ =520\_770**

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $Y_{10}$ | $A_{10}$ | $B_{10}$ | $C_{AB,10}$ | $a_{10}$ | $b_{10}$ | $h_{AB,10}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|----------|----------|----------|-------------|----------|----------|-------------|------------------|------------------|------|
| 1 405            | 33 566           | 53.73    | −28.51   | −9.36    | 30.01       | 0.5164   | −0.3829  | 198.1       | 16 484           | 38 594           | Cm   |
| 7 435            | 33 566           | 54.01    | −30.94   | −3.98    | 31.2        | 0.4742   | −0.2823  | 187.3       | 17 488           | 58 694           |      |
| 10 450           | 33 567           | 54.22    | −32.89   | 1.2      | 32.91       | 0.4405   | −0.1863  | 177.8       | 19 496           | −1 496c          |      |
| 12 460           | 33 568           | 54.77    | −33.83   | 4.66     | 34.15       | 0.4294   | −0.1234  | 172.1       | 21 505           | −1 505c          |      |
| 12 465           | 34 570           | 55.93    | −33.95   | 4.91     | 34.3        | 0.4401   | −0.1208  | 171.7       | 21 506           | −1 506c          |      |
| 14 470           | 34 572           | 56.88    | −33.95   | 7.83     | 34.84       | 0.4502   | −0.0709  | 167.0       | 24 521           | −1 521c          |      |
| 14 475           | 35 576           | 59.98    | −33.85   | 8.48     | 34.9        | 0.4827   | −0.0672  | 165.9       | 24 524           | −1 524c          | Gm   |
| 16 480           | 36 583           | 64.25    | −31.77   | 11.14    | 33.67       | 0.5526   | −0.0352  | 160.6       | 28 540           | −1 540c          |      |
| 17 485           | 39 598           | 74.44    | −25.63   | 13.85    | 29.14       | 0.7027   | −0.0225  | 151.6       | 30 552           | −1 552c          |      |
| 17 490           | −1 489c          | 95.09    | −3.15    | 18.16    | 18.43       | 1.0139   | −0.0176  | 99.8        | 33 568           | 11 459           | max  |
| 18 495           | −1 494c          | 93.95    | −1.99    | 18.36    | 18.47       | 1.0258   | −0.0131  | 96.2        | 33 569           | 12 461           |      |
| 19 500           | −1 499c          | 92.58    | −0.57    | 18.41    | 18.42       | 1.0408   | −0.0097  | 91.8        | 34 570           | 12 464           |      |
| 22 510           | −1 510c          | 86.74    | 5.22     | 17.76    | 18.51       | 1.1073   | −0.0038  | 73.6        | 34 572           | 14 470           |      |
| 24 520           | −1 520c          | 81.19    | 10.15    | 16.78    | 19.61       | 1.1722   | −0.0019  | 58.8        | 35 575           | 14 473           | Ym   |
| 26 530           | −1 530c          | 74.43    | 15.39    | 15.47    | 21.82       | 1.2538   | −0.0008  | 45.1        | 35 578           | 15 476           |      |
| 27 540           | −1 539c          | 70.65    | 17.98    | 14.7     | 23.23       | 1.3016   | −0.0004  | 39.2        | 36 580           | 15 478           |      |
| 28 545           | −1 544c          | 66.66    | 20.45    | 13.89    | 24.73       | 1.354    | −0.0002  | 34.1        | 36 581           | 15 479           |      |
| 30 550           | −1 550c          | 58.24    | 24.75    | 12.15    | 27.57       | 1.4721   | 0.0      | 26.1        | 37 586           | 16 481           |      |
| 31 555           | −1 555c          | 53.86    | 26.43    | 11.23    | 28.72       | 1.538    | 0.0      | 23.0        | 37 588           | 16 482           |      |
| 32 560           | −1 560c          | 49.42    | 27.72    | 10.31    | 29.57       | 1.608    | 0.0      | 20.4        | 38 591           | 16 483           |      |
| 33 566           | 1 405            | 46.26    | 28.51    | 9.36     | 30.01       | 1.6635   | −0.0061  | 18.1        | 38 594           | 16 484           | Rm   |
| 33 566           | 7 435            | 45.98    | 30.94    | 3.98     | 31.2        | 1.72     | −0.122   | 7.3         | 58 694           | 17 488           |      |
| 33 567           | 10 450           | 45.77    | 32.89    | −1.2     | 32.91       | 1.7657   | −0.235   | 357.8       | −1 496c          | 19 496           |      |
| 33 568           | 12 460           | 45.22    | 33.83    | −4.66    | 34.15       | 1.7953   | −0.3118  | 352.1       | −1 505c          | 21 505           |      |
| 34 570           | 12 465           | 44.06    | 33.95    | −4.91    | 34.3        | 1.8176   | −0.32    | 351.7       | −1 506c          | 21 506           |      |
| 34 572           | 14 470           | 43.11    | 33.95    | −7.83    | 34.84       | 1.8348   | −0.3903  | 347.0       | −1 521c          | 24 521           |      |
| 35 576           | 14 475           | 40.01    | 33.85    | −8.48    | 34.9        | 1.8933   | −0.4206  | 345.9       | −1 524c          | 24 524           | Mm   |
| 36 583           | 16 480           | 35.74    | 31.77    | −11.14   | 33.67       | 1.9362   | −0.5203  | 340.6       | −1 540c          | 28 540           |      |
| 39 598           | 17 485           | 25.55    | 25.63    | −13.85   | 29.14       | 2.0503   | −0.7507  | 331.6       | −1 552c          | 30 552           |      |
| −1 489c          | 17 490           | 4.9      | 3.15     | −18.16   | 18.43       | 1.6903   | −3.9107  | 279.8       | 11 459           | 33 568           | min  |
| −1 494c          | 18 495           | 6.04     | 1.99     | −18.36   | 18.47       | 1.3778   | −3.2484  | 276.2       | 12 461           | 33 569           |      |
| −1 499c          | 19 500           | 7.41     | 0.57     | −18.41   | 18.42       | 1.1252   | −2.6931  | 271.8       | 12 464           | 34 570           |      |
| −1 510c          | 22 510           | 13.25    | −5.22    | −17.76   | 18.51       | 0.6529   | −1.5488  | 253.6       | 14 470           | 34 572           |      |
| −1 520c          | 24 520           | 18.8     | −10.15   | −16.78   | 19.61       | 0.507    | −1.101   | 238.8       | 14 473           | 35 575           | Bm   |
| −1 530c          | 26 530           | 25.56    | −15.39   | −15.47   | 21.82       | 0.445    | −0.8138  | 225.1       | 15 476           | 35 578           |      |
| −1 539c          | 27 540           | 29.34    | −17.98   | −14.7    | 23.23       | 0.4343   | −0.7099  | 219.2       | 15 478           | 36 580           |      |
| −1 544c          | 28 545           | 33.33    | −20.45   | −13.89   | 24.73       | 0.4333   | −0.6254  | 214.1       | 15 479           | 36 581           |      |
| −1 550c          | 30 550           | 41.75    | −24.75   | −12.15   | 27.57       | 0.4543   | −0.4996  | 206.1       | 16 481           | 37 586           |      |
| −1 555c          | 31 555           | 46.13    | −26.43   | −11.23   | 28.72       | 0.4741   | −0.4522  | 203.0       | 16 482           | 37 588           |      |
| −1 560c          | 32 560           | 50.57    | −27.72   | −10.31   | 29.57       | 0.4989   | −0.4125  | 200.4       | 16 483           | 38 591           |      |
| 380              | 770              | 99.99    | 0.0      | 0.0      | 0.01        | 1.0471   | −0.2086  | 0.0         |                  |                  |      |

| Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P30, $Y_{w,10}=100$ , $Y_m=520\text{--}770$ |                  |          |          |          |             |          |          |             |                  |                  |      |  |  |  |
|--------------------------------------------------------------------------------------------------------|------------------|----------|----------|----------|-------------|----------|----------|-------------|------------------|------------------|------|--|--|--|
| $i_1, \lambda_1$                                                                                       | $i_2, \lambda_2$ | $Y_{10}$ | $A_{10}$ | $B_{10}$ | $C_{AB,10}$ | $a_{10}$ | $b_{10}$ | $h_{AB,10}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |  |  |  |
| 1 405                                                                                                  | 33 569           | 52.67    | −30.03   | −7.24    | 30.89       | 0.5228   | −0.2942  | 193.5       | 17 486           | 39 596           | Cm   |  |  |  |
| 6 435                                                                                                  | 33 569           | 52.97    | −31.28   | −4.58    | 31.61       | 0.5025   | −0.2433  | 188.3       | 17 489           | 43 615           |      |  |  |  |
| 9 450                                                                                                  | 34 570           | 53.24    | −32.7    | −1.04    | 32.71       | 0.4787   | −0.1763  | 181.8       | 18 494           | −1 494c          |      |  |  |  |
| 12 460                                                                                                 | 34 571           | 53.48    | −33.74   | 2.86     | 33.86       | 0.4619   | −0.1032  | 175.1       | 21 505           | −1 505c          |      |  |  |  |
| 13 465                                                                                                 | 34 572           | 54.01    | −33.87   | 4.09     | 34.12       | 0.4658   | −0.0809  | 173.1       | 22 512           | −1 512c          |      |  |  |  |
| 14 470                                                                                                 | 34 573           | 55.05    | −33.82   | 5.25     | 34.23       | 0.4784   | −0.0614  | 171.1       | 24 520           | −1 520c          |      |  |  |  |
| 14 475                                                                                                 | 35 576           | 57.35    | −33.78   | 5.61     | 34.24       | 0.5039   | −0.0589  | 170.5       | 24 523           | −1 523c          | Gm   |  |  |  |
| 15 480                                                                                                 | 36 581           | 60.98    | −32.97   | 6.98     | 33.7        | 0.5522   | −0.0422  | 168.0       | 26 534           | −1 534c          |      |  |  |  |
| 16 485                                                                                                 | 38 590           | 67.78    | −30.21   | 8.68     | 31.43       | 0.6472   | −0.0287  | 163.9       | 29 546           | −1 546c          |      |  |  |  |
| 18 490                                                                                                 | 44 620           | 84.98    | −13.94   | 12.23    | 18.54       | 0.9289   | −0.0128  | 138.7       | 32 564           | −1 564c          | max  |  |  |  |
| 19 495                                                                                                 | −1 495c          | 94.0     | 0.43     | 13.93    | 13.94       | 1.0975   | −0.0085  | 88.2        | 34 572           | 13 465           |      |  |  |  |
| 20 500                                                                                                 | −1 500c          | 92.59    | 1.95     | 13.92    | 14.06       | 1.114    | −0.0063  | 81.9        | 34 572           | 13 467           |      |  |  |  |
| 21 510                                                                                                 | −1 509c          | 90.89    | 3.73     | 13.82    | 14.31       | 1.134    | −0.0047  | 74.8        | 34 573           | 13 469           |      |  |  |  |
| 23 520                                                                                                 | −1 519c          | 86.52    | 8.03     | 13.35    | 15.58       | 1.1857   | −0.0024  | 58.9        | 35 575           | 14 473           | Ym   |  |  |  |
| 26 530                                                                                                 | −1 530c          | 77.56    | 15.61    | 12.1     | 19.75       | 1.2942   | −0.0007  | 37.7        | 35 579           | 15 478           |      |  |  |  |
| 28 540                                                                                                 | −1 540c          | 70.17    | 20.77    | 10.98    | 23.49       | 1.3889   | −0.0002  | 27.8        | 36 583           | 16 481           |      |  |  |  |
| 29 545                                                                                                 | −1 545c          | 66.16    | 23.15    | 10.36    | 25.37       | 1.4429   | 0.0      | 24.1        | 37 585           | 16 482           |      |  |  |  |
| 30 550                                                                                                 | −1 550c          | 61.97    | 25.32    | 9.71     | 27.12       | 1.5014   | 0.0      | 20.9        | 37 587           | 16 483           |      |  |  |  |
| 31 555                                                                                                 | −1 555c          | 57.64    | 27.18    | 9.03     | 28.65       | 1.5645   | 0.0      | 18.3        | 37 589           | 16 484           |      |  |  |  |
| 32 560                                                                                                 | −1 560c          | 53.2     | 28.67    | 8.34     | 29.86       | 1.6318   | 0.0      | 16.2        | 38 592           | 17 485           |      |  |  |  |
| 33 569                                                                                                 | 1 405            | 47.32    | 30.03    | 7.24     | 30.89       | 1.7275   | −0.0037  | 13.5        | 39 596           | 17 486           | Rm   |  |  |  |
| 33 569                                                                                                 | 6 435            | 47.02    | 31.28    | 4.58     | 31.61       | 1.7581   | −0.0592  | 8.3         | 43 615           | 17 489           |      |  |  |  |
| 34 570                                                                                                 | 9 450            | 46.75    | 32.7     | 1.04     | 32.71       | 1.7922   | −0.1345  | 1.8         | −1 494c          | 18 494           |      |  |  |  |
| 34 571                                                                                                 | 12 460           | 46.51    | 33.74    | −2.86    | 33.86       | 1.8184   | −0.2183  | 355.1       | −1 505c          | 21 505           |      |  |  |  |
| 34 572                                                                                                 | 13 465           | 45.98    | 33.87    | −4.09    | 34.11       | 1.8295   | −0.2458  | 353.1       | −1 512c          | 22 512           |      |  |  |  |
| 34 573                                                                                                 | 14 470           | 44.94    | 33.82    | −5.25    | 34.23       | 1.8455   | −0.2736  | 351.1       | −1 520c          | 24 520           |      |  |  |  |
| 35 576                                                                                                 | 14 475           | 42.64    | 33.78    | −5.61    | 34.24       | 1.8851   | −0.2884  | 350.5       | −1 523c          | 24 523           | Mm   |  |  |  |
| 36 581                                                                                                 | 15 480           | 39.01    | 32.97    | −6.98    | 33.7        | 1.9382   | −0.3358  | 348.0       | −1 534c          | 26 534           |      |  |  |  |
| 38 590                                                                                                 | 16 485           | 32.21    | 30.21    | −8.68    | 31.43       | 2.0306   | −0.4262  | 343.9       | −1 546c          | 29 546           |      |  |  |  |
| 44 620                                                                                                 | 18 490           | 15.01    | 13.94    | −12.23   | 18.54       | 2.0215   | −0.9719  | 318.7       | −1 564c          | 32 564           | min  |  |  |  |
| −1 495c                                                                                                | 19 495           | 5.99     | −0.43    | −13.93   | 13.94       | 1.0201   | −2.483   | 268.2       | 13 465           | 34 572           |      |  |  |  |
| −1 500c                                                                                                | 20 500           | 7.4      | −1.95    | −13.92   | 14.06       | 0.8286   | −2.0367  | 261.9       | 13 467           | 34 572           |      |  |  |  |
| −1 509c                                                                                                | 21 510           | 9.1      | −3.73    | −13.82   | 14.31       | 0.6826   | −1.6742  | 254.8       | 13 469           | 34 573           |      |  |  |  |
| −1 519c                                                                                                | 23 520           | 13.47    | −8.03    | −13.35   | 15.58       | 0.4969   | −1.1474  | 238.9       | 14 473           | 35 575           | Bm   |  |  |  |
| −1 530c                                                                                                | 26 530           | 22.43    | −15.61   | −12.1    | 19.75       | 0.3968   | −0.6964  | 217.7       | 15 478           | 35 579           |      |  |  |  |
| −1 540c                                                                                                | 28 540           | 29.82    | −20.77   | −10.98   | 23.49       | 0.3964   | −0.5252  | 207.8       | 16 481           | 36 583           |      |  |  |  |
| −1 545c                                                                                                | 29 545           | 33.83    | −23.15   | −10.36   | 25.37       | 0.4084   | −0.4632  | 204.1       | 16 482           | 37 585           |      |  |  |  |
| −1 550c                                                                                                | 30 550           | 38.02    | −25.32   | −9.71    | 27.12       | 0.4269   | −0.4123  | 200.9       | 16 483           | 37 587           |      |  |  |  |
| −1 555c                                                                                                | 31 555           | 42.35    | −27.18   | −9.03    | 28.65       | 0.451    | −0.3701  | 198.3       | 16 484           | 37 589           |      |  |  |  |
| −1 560c                                                                                                | 32 560           | 46.79    | −28.67   | −8.34    | 29.86       | 0.4801   | −0.335   | 196.2       | 17 485           | 38 592           |      |  |  |  |
| 380                                                                                                    | 770              | 99.99    | 0.0      | 0.0      | 0.01        | 1.0929   | −0.1567  | 0.0         |                  |                  |      |  |  |  |

**Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for P25,  $Y_{w,10}$ =100,  $Y_m$ =520\_770**

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $Y_{10}$ | $A_{10}$ | $B_{10}$ | $C_{AB,10}$ | $a_{10}$ | $b_{10}$ | $h_{AB,10}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|----------|----------|----------|-------------|----------|----------|-------------|------------------|------------------|------|
| 1 405            | 34 573           | 51.09    | -31.49   | -5.02    | 31.89       | 0.549    | -0.2028  | 189.0       | 18 490           | 39 599           | Cm   |
| 6 435            | 34 573           | 51.3     | -32.19   | -3.5     | 32.38       | 0.5379   | -0.1729  | 186.2       | 18 492           | 42 613           |      |
| 9 450            | 34 573           | 51.5     | -33.06   | -1.3     | 33.09       | 0.5234   | -0.1299  | 182.2       | 19 497           | -1 497c          |      |
| 12 460           | 34 574           | 51.67    | -33.77   | 1.28     | 33.79       | 0.5118   | -0.0796  | 177.8       | 21 506           | -1 506c          |      |
| 12 465           | 35 575           | 52.27    | -33.83   | 1.34     | 33.86       | 0.518    | -0.0787  | 177.7       | 21 507           | -1 507c          |      |
| 13 470           | 35 576           | 53.01    | -33.87   | 2.22     | 33.94       | 0.5265   | -0.0624  | 176.2       | 22 513           | -1 513c          |      |
| 15 475           | 35 577           | 53.87    | -33.47   | 3.61     | 33.67       | 0.544    | -0.0375  | 173.8       | 25 527           | -1 527c          | Gm   |
| 16 480           | 36 580           | 56.11    | -32.9    | 4.31     | 33.18       | 0.5791   | -0.0276  | 172.5       | 27 536           | -1 536c          |      |
| 17 485           | 37 586           | 60.05    | -31.5    | 5.09     | 31.91       | 0.6407   | -0.0197  | 170.8       | 28 544           | -1 544c          |      |
| 18 490           | 39 597           | 68.64    | -27.07   | 6.27     | 27.78       | 0.771    | -0.013   | 166.9       | 31 555           | -1 555c          | max  |
| 19 495           | 58 690           | 95.41    | 0.93     | 9.3      | 9.34        | 1.1752   | -0.007   | 84.2        | 35 575           | 13 466           |      |
| 20 500           | -1 500c          | 94.45    | 2.51     | 9.37     | 9.7         | 1.192    | -0.0053  | 74.9        | 35 575           | 13 469           |      |
| 21 510           | -1 509c          | 93.06    | 4.07     | 9.35     | 10.2        | 1.2092   | -0.0039  | 66.4        | 35 576           | 14 471           |      |
| 24 520           | -1 520c          | 87.05    | 10.24    | 8.97     | 13.61       | 1.283    | -0.0015  | 41.2        | 35 579           | 15 477           | Ym   |
| 26 530           | -1 530c          | 81.48    | 15.21    | 8.46     | 17.41       | 1.3521   | -0.0006  | 29.0        | 36 581           | 16 481           |      |
| 27 540           | -1 539c          | 78.23    | 17.82    | 8.14     | 19.6        | 1.3933   | -0.0003  | 24.5        | 36 583           | 16 482           |      |
| 28 545           | -1 544c          | 74.69    | 20.43    | 7.79     | 21.87       | 1.439    | -0.0001  | 20.8        | 37 585           | 16 484           |      |
| 29 550           | -1 549c          | 70.92    | 22.95    | 7.41     | 24.12       | 1.4891   | 0.0      | 17.8        | 37 586           | 17 485           |      |
| 31 555           | -1 555c          | 62.71    | 27.42    | 6.55     | 28.19       | 1.6027   | 0.0      | 13.4        | 38 591           | 17 487           |      |
| 31 560           | -1 559c          | 62.71    | 27.42    | 6.55     | 28.19       | 1.6027   | 0.0      | 13.4        | 38 591           | 17 487           |      |
| 34 573           | 1 405            | 48.9     | 31.49    | 5.02     | 31.89       | 1.8094   | -0.0018  | 9.0         | 39 599           | 18 490           | Rm   |
| 34 573           | 6 435            | 48.69    | 32.19    | 3.5      | 32.38       | 1.8266   | -0.0324  | 6.2         | 42 613           | 18 492           |      |
| 34 573           | 9 450            | 48.49    | 33.06    | 1.3      | 33.09       | 1.8472   | -0.0776  | 2.2         | -1 497c          | 19 497           |      |
| 34 574           | 12 460           | 48.32    | 33.77    | -1.28    | 33.79       | 1.8643   | -0.1311  | 357.8       | -1 506c          | 21 506           |      |
| 35 575           | 12 465           | 47.72    | 33.83    | -1.34    | 33.86       | 1.8744   | -0.1328  | 357.7       | -1 507c          | 21 507           |      |
| 35 576           | 13 470           | 46.98    | 33.87    | -2.22    | 33.94       | 1.8864   | -0.152   | 356.2       | -1 513c          | 22 513           |      |
| 35 577           | 15 475           | 46.12    | 33.47    | -3.61    | 33.67       | 1.8913   | -0.1828  | 353.8       | -1 527c          | 25 527           | Mm   |
| 36 580           | 16 480           | 43.88    | 32.9     | -4.31    | 33.18       | 1.9151   | -0.2028  | 352.5       | -1 536c          | 27 536           |      |
| 37 586           | 17 485           | 39.94    | 31.5     | -5.09    | 31.91       | 1.954    | -0.232   | 350.8       | -1 544c          | 28 544           |      |
| 39 597           | 18 490           | 31.35    | 27.07    | -6.27    | 27.78       | 2.0288   | -0.3048  | 346.9       | -1 555c          | 31 555           | min  |
| 58 690           | 19 495           | 4.58     | -0.93    | -9.29    | 9.34        | 0.9606   | -2.1308  | 264.2       | 13 466           | 35 575           |      |
| -1 500c          | 20 500           | 5.54     | -2.51    | -9.37    | 9.7         | 0.7111   | -1.7955  | 254.9       | 13 469           | 35 575           |      |
| -1 509c          | 21 510           | 6.93     | -4.07    | -9.35    | 10.2        | 0.5776   | -1.4536  | 246.4       | 14 471           | 35 576           |      |
| -1 520c          | 24 520           | 12.94    | -10.24   | -8.97    | 13.61       | 0.374    | -0.7977  | 221.2       | 15 477           | 35 579           | Bm   |
| -1 530c          | 26 530           | 18.51    | -15.21   | -8.46    | 17.41       | 0.3437   | -0.5618  | 209.0       | 16 481           | 36 581           |      |
| -1 539c          | 27 540           | 21.76    | -17.82   | -8.14    | 19.6        | 0.3464   | -0.4789  | 204.5       | 16 482           | 36 583           |      |
| -1 544c          | 28 545           | 25.3     | -20.43   | -7.79    | 21.87       | 0.3576   | -0.4126  | 200.8       | 16 484           | 37 585           |      |
| -1 549c          | 29 550           | 29.07    | -22.95   | -7.41    | 24.12       | 0.3759   | -0.3594  | 197.8       | 17 485           | 37 586           |      |
| -1 555c          | 31 555           | 37.28    | -27.42   | -6.55    | 28.19       | 0.4298   | -0.2804  | 193.4       | 17 487           | 38 591           |      |
| -1 559c          | 31 560           | 37.28    | -27.42   | -6.55    | 28.19       | 0.4298   | -0.2804  | 193.4       | 17 487           | 38 591           |      |
| 380              | 770              | 99.99    | 0.0      | 0.0      | 0.01        | 1.1654   | -0.1045  | 0.0         |                  |                  |      |