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 application for measurement of printer or monitor systems

TUB material: code=rhta

| standard tristimulus values for 2°-observer and standard illuminant D65 |                                    |                              |                              |                                 |
|---|------------------------------------|------------------------------|------------------------------|---------------------------------|
| wavelength  | tristimulus values, 2°, D65, 20 nm |                              |                              | notes                           |
| $\lambda$ /nm   | $\bar{x}(\lambda)S(\lambda)$       | $\bar{y}(\lambda)S(\lambda)$ | $\bar{z}(\lambda)S(\lambda)$ | $S(\lambda) = S_{D65}(\lambda)$ |
| 380   | 0,0129                             | 0,0004                       | 0,0609                       |                                 |
| 400   | 0,2237                             | 0,0062                       | 1,0607                       | 370 nm ... 490 nm               |
| 420   | 2,3701                             | 0,0705                       | 11,3849                      | violetblue V                    |
| 440   | 6,8984                             | 0,4555                       | 34,6028                      |                                 |
| 460   | 6,4678                             | 1,3345                       | 37,1255                      |                                 |
| 480   | 2,0929                             | 3,0417                       | 17,7907                      |                                 |
| 500   | 0,1012                             | 6,6717                       | 5,6183                       |                                 |
| 520   | 1,2519                             | 14,0488                      | 1,5483                       |                                 |
| 540   | 5,7242                             | 18,8047                      | 0,4001                       | 490 nm ... 590 nm               |
| 560   | 11,2246                            | 18,7863                      | 0,0736                       | leafgreen L                     |
| 580   | 16,5738                            | 15,7363                      | 0,0298                       |                                 |
| 600   | 18,0496                            | 10,7224                      | 0,0136                       |                                 |
| 620   | 14,1475                            | 6,3087                       | 0,0031                       |                                 |
| 640   | 7,0782                             | 2,7656                       | 0,0003                       |                                 |
| 660   | 2,4970                             | 0,9237                       | 0,0000                       | 590 nm ... 770 nm               |
| 680   | 0,6914                             | 0,2513                       | 0,0000                       | orangered O                     |
| 700   | 0,1563                             | 0,0555                       | 0,0000                       |                                 |
| 720   | 0,0337                             | 0,0122                       | 0,0000                       |                                 |
| 740   | 0,0098                             | 0,0035                       | 0,0000                       |                                 |
| 760   | 0,0015                             | 0,0005                       | 0,0000                       |                                 |
| sum:  | 95,6038                            | 100,000                      | 109,7126                     | 370 nm ... 770 nm               |
| white   |                                    |                              |                              | white D65                       |

ME440-7, BT9\_03

| elementary colors yellow, red, blue and green by Miescher for D65 |                           |        |                                 |        |        |
|---|---------------------------|--------|---------------------------------|--------|--------|
| basic color or mixed color and name                               | CIE standard chromaticity |        | CIE standard tristimulus values |        |        |
|   | x                         | y      | X                               | Y      | Z      |
| <i>four elementary colors:</i>                                    |                           |        |                                 |        |        |
| J yellow  | 0,4449                    | 0,4909 |                                 | 77,82  |        |
| R red   | 0,5813                    | 0,3236 |                                 | 18,11  |        |
| B blue  | 0,1701                    | 0,1355 |                                 | 9,35   |        |
| G green   | 0,1890                    | 0,4496 |                                 | 20,24  |        |
| D65 (white)   | 0,3127                    | 0,3291 | 95,01                           | 100,00 | 108,85 |

ME441-3, BT9\_05

| basic and mixed colors of standard color television by DIN 6169 |                           |        |                                |        |        |
|---|---------------------------|--------|--------------------------------|--------|--------|
| basic color or mixed color and name                             | CIE standard chromaticity |        | CIE standard tristimulus value |        |        |
|   | x                         | y      | X                              | Y      | Z      |
| <i>three additive basic colors:</i>                             |                           |        |                                |        |        |
| O orangered   | 0,6400                    | 0,3300 | 43,03                          | 22,19  | 2,02   |
| L leafgreen   | 0,2900                    | 0,6000 | 34,16                          | 70,68  | 12,96  |
| V violetblue  | 0,1415                    | 0,0482 | 17,82                          | 7,13   | 93,87  |
| <i>three additive mixed colors:</i>                             |                           |        |                                |        |        |
| C cyanblue  | 0,2197                    | 0,3288 | 51,98                          | 77,81  | 106,83 |
| M magentared  | 0,3270                    | 0,1576 | 60,85                          | 29,32  | 95,89  |
| Y yellow  | 0,4172                    | 0,5019 | 77,19                          | 92,87  | 14,98  |
| D65 (white)   | 0,3127                    | 0,3291 | 95,01                          | 100,00 | 108,85 |

ME441-7, BT9\_06