













TUB registration: 20140801-WE35/WE35L0NA.TXT /PS TUB material: code=rha4ta  
application for measurement of display or printer output, no separation

| %XS                                                                                                                                         | YS      | ZS      | X0      | Y0      | Z0      | X1      | Y1      | Z1      | DV      | dE'ab | dE'CH | dE'94 | dE'CM | dE'00 | de'85    | no.        | Code       | L*  | a*  | b*  | % |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|-------|-------|----------|------------|------------|-----|-----|-----|---|
| %CIEXYZ*1000 data for iim=315 colours, CIE data XYZ0 and XYZ1 for delta_e'85=delta_e'LABJND,PF=1, and visual DV=1 expected for this formula |         |         |         |         |         |         |         |         |         |       |       |       |       |       |          |            |            |     |     |     |   |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0053869 | 0056681 | 0101721 | 0053871 | 0056683 | 0099075 | 0001000 | 01693 | 01129 | 01204 | 01159 | 01001 | 18840300 | (80308_BY) | 80         | 0   | -30 | %   |   |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0004415 | 0002989 | 0006780 | 0004416 | 0002990 | 0006477 | 0001000 | 01397 | 01397 | 01148 | 01145 | 01123 | 01000    | 18940301   | (20309_BY) | 20  | 25  | -17 | % |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0007520 | 0006235 | 0010182 | 0007521 | 0006237 | 0009801 | 0001000 | 01360 | 01360 | 01216 | 01265 | 01156 | 01000    | 18940302   | (30209_BY) | 30  | 16  | -11 | % |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0011818 | 0011250 | 0014565 | 0011820 | 0011252 | 0014043 | 0001000 | 01417 | 01417 | 01429 | 01617 | 01374 | 01000    | 18940303   | (40109_BY) | 40  | 8   | -6  | % |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0028784 | 0028123 | 0034820 | 0028785 | 0028124 | 0033698 | 0001000 | 01567 | 01567 | 01626 | 01826 | 01562 | 01000    | 18940304   | (60109_BY) | 60  | 8   | -6  | % |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0044093 | 0040749 | 0055482 | 0044095 | 0040751 | 0053827 | 0001000 | 01635 | 01635 | 01539 | 01580 | 01462 | 01001    | 18940305   | (70209_BY) | 70  | 16  | -11 | % |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0064048 | 0056681 | 0083032 | 0064050 | 0056683 | 0080682 | 0001000 | 01709 | 01709 | 01489 | 01461 | 01453 | 01001    | 18940306   | (80309_BY) | 80  | 25  | -17 | % |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0018983 | 0027027 | 0008750 | 0018988 | 0027032 | 0007383 | 0001000 | 02969 | 02969 | 02204 | 02139 | 02133 | 00997    | 18540307   | (59534_BY) | 59  | -31 | 43  | % |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0032840 | 0016794 | 0021991 | 0032841 | 0016795 | 0021260 | 0001000 | 01466 | 01466 | 01005 | 00964 | 00895 | 01000    | 18040308   | (48759_BY) | 48  | 75  | -7  | % |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | -11 | 96  | %   |   |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0030111 | 0016794 | 0002703 | 0030118 | 0016801 | 0001752 | 0001000 | 03910 | 02941 | 03496 | 03292 | 00997 | 18340310 | (48832_BY) | 48         | 65  | 52  | %   |   |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0008752 | 0019268 | 0006587 | 0008756 | 0019272 | 0005581 | 0001000 | 02783 | 02783 | 02121 | 01926 | 01906 | 00997    | 18540311   | (51735_BY) | 51  | -63 | 37  | % |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0007247 | 0004746 | 0021471 | 0007249 | 0004747 | 0020738 | 0001000 | 01483 | 01483 | 00913 | 00976 | 01098 | 01001    | 18940312   | (26548_BY) | 26  | 31  | -44 | % |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0083272 | 0087618 | 0095398 | 0083274 | 0087620 | 0092285 | 0001000 | 01898 | 01898 | 02374 | 02945 | 02332 | 00998    | 18140313   | (95002_BY) | 95  | 0   | 0   | % |
| 0095040                                                                                                                                     | 0100000 | 0108880 | 0095040 | 0100000 | 0108880 | 0095042 | 0100002 | 0105341 | 0001000 | 01940 | 01940 | 02441 | 03024 | 02394 | 00998    | 18140314   | (99002_BY) | 100 | 0   | 0   | % |

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| %XS                                                                       | YS | ZS | X0      | Y0      | Z0      | X1      | Y1      | Z1      | DV      | dE'ab   | dE'CH                                 | dE'94 | dE'CM | dE'00 | de'85 | no.      | Code       | L*         | a*  | b* | %   |   |
|---------------------------------------------------------------------------|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------------------------------------|-------|-------|-------|-------|----------|------------|------------|-----|----|-----|---|
| %sample no. 105 for delta_E'CIELCH,PF=CIELAB=min %                        |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0001070 | 0001126 | 0001126 | 0001100 | 0001127 | 0001227 | 0001000 | 01256                                 | 01249 | 01395 | 01784 | 01848 | 00644    | 18100000   | (10009_RG) | 10  | 0  | 0   | % |
| %sample no. 309 for delta_E'CIELCH,PF=CIELAB=max %                        |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | -11 | 96 | %   |   |
| %sample no. 309 for delta_E'CIIE94,PF=min %                               |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | -11 | 96 | %   |   |
| %sample no. 309 for delta_E'CIIE94,PF=max %                               |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | -11 | 96 | %   |   |
| %sample no. 309 for delta_E'CMC,PF(l.c=1:1)=min %                         |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | -11 | 96 | %   |   |
| %sample no. 309 for delta_E'CMC,PF(l.c=1:1)=max %                         |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | -11 | 96 | %   |   |
| %sample no. 309 for delta_E'CIIEDE2000,PF=min %                           |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | -11 | 96 | %   |   |
| %sample no. 310 for delta_E'CIIEDE2000,PF=max %                           |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0030111 | 0016794 | 0002703 | 0030118 | 0016801 | 0001752 | 0001000 | 03910                                 | 02941 | 03496 | 03292 | 00997 | 18340310 | (48832_BY) | 48         | 65  | 52 | %   |   |
| %sample no. 309 for delta_E'LABJND,PF=min %                               |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | -11 | 96 | %   |   |
| %sample no. 102 for delta_E'LABJND,PF=max %                               |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0007247 | 0004746 | 0021471 | 0007700 | 0005094 | 0022441 | 0001000 | 01261                                 | 01261 | 01411 | 01649 | 01162 | 01267    | 18910000   | (26548_WN) | 26  | 31 | -44 | % |
| %sample no. 105 for delta_E'CIELCH,PF=CIELAB=min %                        |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0001070 | 0001126 | 0001126 | 0001100 | 0001127 | 0001227 | 0001000 | 01256                                 | 01249 | 01395 | 01784 | 01848 | 00644    | 18100000   | (10009_RG) | 10  | 0  | 358 | % |
| %sample no. 309 for delta_E'CIELCH,PF=CIELAB=max %                        |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | 97  | 97 | %   |   |
| %sample no. 309 for delta_E'CIIE94,PF=min %                               |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | 97  | 97 | %   |   |
| %sample no. 309 for delta_E'CIIE94,PF=max %                               |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | 97  | 97 | %   |   |
| %sample no. 309 for delta_E'CMC,PF(l.c=1:1)=min %                         |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | 97  | 97 | %   |   |
| %sample no. 309 for delta_E'CMC,PF(l.c=1:1)=max %                         |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | 97  | 97 | %   |   |
| %sample no. 309 for delta_E'CIIEDE2000,PF=min %                           |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | 97  | 97 | %   |   |
| %sample no. 310 for delta_E'CIIEDE2000,PF=max %                           |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0030111 | 0016794 | 0002703 | 0030118 | 0016801 | 0001752 | 0001000 | 03910                                 | 02941 | 03496 | 03292 | 00997 | 18340310 | (48832_BY) | 48         | 83  | 39 | %   |   |
| %sample no. 309 for delta_E'LABJND,PF=min %                               |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0067406 | 0076303 | 0008887 | 0067418 | 0076316 | 0005010 | 0001000 | 05604                                 | 02956 | 03631 | 02904 | 00997 | 18440309 | (90974_BY) | 90         | 97  | 97 | %   |   |
| %sample no. 102 for delta_E'LABJND,PF=max %                               |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    | 0108880 | 0007247 | 0004746 | 0021471 | 0007700 | 0005094 | 0022441 | 0001000 | 01261                                 | 01261 | 01411 | 01649 | 01162 | 01267    | 18910000   | (26548_WN) | 26  | 54 | 305 | % |
| %average colour difference of one experimental unit for 315 sample pairs: |    |    |         |         |         |         |         |         |         |         |                                       |       |       |       |       |          |            |            |     |    |     |   |
|                                                                           |    |    |         |         |         |         |         |         |         |         | 01308 01308 01240 01323 01266 00895 % |       |       |       |       |          |            |            |     |    |     |   |

see similar files: <http://130.149.60.45/~farbmatrik/WE35/WE35.HTM>  
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

input: w/rgb/cmyk -> (w/rgb/cmyk)

TUB-test chart WE35; Colour differences  $\Delta E^*85,PF=1$   
colour difference formula LABJND,PF