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 application for evaluation and measurement of display or print output
 TUB material: code=rh4ta

Basic television colour or mixture colour for D65 CIE data for $Y_W=88,6$	chromaticity		tristimulus values ($Y_d=88,6$ for white D65)			Standard CIELAB data $L^*a^*b^*C^*_{ab}h_{ab}$ ($L^*_d=88,6$ for white; $L^*_d=18,0$ for black)					Standard data $Y_{A_2}B_2C_{AB_2}h_{AB_2}$ ($Y_d=88,6$ for white; $Y_d=2,5$ for black)				
	x_d	y_d	X_d	Y_d	Z_d	L^*_d	a^*_d	b^*_d	$C^*_{ab,d}$	$h_{ab,d}$	Y_d	A_{2d}	B_{2d}	$C_{AB_2,d}$	$h_{AB_2,d}$
<i>three additive mixture colours: television colours according to ITU-R BT.709.3 and sRGB display according to IEC 61966-2-1</i>															
C_d cyan (cyan blue)	0,224	0,328	47,67	69,76	94,78	86,88	-46,18	-13,57	48,13	199	69,76	-46,62	-15,04	48,99	197
M_d magenta (magenta red)	0,320	0,154	52,52	25,23	85,93	57,30	94,34	-58,43	110,97	324	25,23	47,42	-46,76	66,60	315
Y_d yellow	0,419	0,505	68,21	82,20	12,27	92,66	-20,72	90,74	93,08	110	82,20	-0,81	61,80	61,80	90
<i>three additive basic colours: television colours according to ITU-R BT.709.3 and sRGB display according to IEC 61966-2-1</i>															
R_d Red (orange red)	0,640	0,330	36,53	18,83	1,71	50,49	76,91	64,54	100,40	19	18,83	46,61	15,04	48,98	17
G_d Green (leaf green)	0,300	0,600	31,68	63,36	10,56	83,63	-82,78	79,89	115,04	144	63,36	-47,43	46,75	66,60	135
B_d Blue (violet blue)	0,150	0,060	15,99	6,39	84,22	30,39	76,06	-103,59	128,52	290	6,39	0,80	-61,80	61,81	270
<i>achromatic colours and equations:</i> $a_{20} = 1,0; b_{20} = -0,4; x_c = 0,110; B_c = 0,8; A_{2d} = 2,5[a_{2d} - a_{2n}]Y_d; B_{2d} = 2,5B_c[b_{2d} - b_{2n}]Y_d; C_{AB_2,d} = [A_{2d}^2 + B_{2d}^2]^{1/2}; h_{AB_2,d} = \text{atan}[B_{2d} / A_{2d}]$ $a_n = x_w/y_w; b_n = -0,4[z_w/y_w]; a_d = x_d/y_d; b_d = -0,4[z_d/y_d]; z_d = 1 - x_d - y_d$ compare CIE 230:2019															
W_0 (white monitor, 100%)	0,312	0,329	95,05	100,00	108,90	100,00	0,00	0,00	0,00	0	100,00	0,00	0,00	0,00	0
W_1 (white monitor, 88,6%)	0,312	0,329	84,21	88,60	96,48	95,40	0,00	0,00	0,00	0	88,60	0,00	0,00	0,00	0
N_1 (black monitor, 2,5%)	0,312	0,329	2,37	2,50	2,72	18,00	0,00	0,00	0,00	0	2,50	0,00	0,00	0,00	0
N_0 (black monitor, 0,00%)	0,312	0,329	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	0

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Basic television colour or mixture colour for D65 CIE data for $Y_W=88,6$	chromaticity		tristimulus values ($Y_d=88,6$ for white D65)			Standard CIELAB data $L^*a^*b^*C^*_{ab}h_{ab}$ ($L^*_d=88,6$ for white; $L^*_d=18,0$ for black)					Standard data $Y_{A_2}B_2C_{AB_2}h_{AB_2}$ ($Y_d=88,6$ for white; $Y_d=2,5$ for black)				
	x_d	y_d	X_d	Y_d	Z_d	L^*_d	a^*_d	b^*_d	$C^*_{ab,d}$	$h_{ab,d}$	Y_d	A_{2d}	B_{2d}	$C_{AB_2,d}$	$h_{AB_2,d}$
<i>three additive mixture colours: television colours according to ITU-R BT.2020-2 and Wide Colour Gamut WCG display</i>															
C_d cyan (cyan blue)	0,146	0,344	27,77	65,32	96,48	84,65	-102,04	-18,55	103,71	194	65,32	-83,31	-20,27	85,74	193
M_d magenta (magenta red)	0,368	0,147	71,39	28,52	94,00	60,36	125,35	-58,76	138,44	333	28,52	81,21	-50,34	95,55	328
Y_d yellow	0,446	0,537	69,24	83,34	2,48	93,16	-20,63	131,47	133,08	107	83,34	2,09	70,62	70,65	88
<i>three additive basic colours: television colours according to ITU-R BT.2020-2 and Wide Colour Gamut WCG display</i>															
R_d Red (orange red)	0,708	0,292	56,43	23,27	0,00	55,35	112,67	95,43	147,66	14	23,27	83,31	20,27	85,74	13
G_d Green (leaf green)	0,170	0,797	12,81	60,07	2,48	81,87	-165,51	112,00	199,84	153	60,07	-81,21	50,34	95,55	148
B_d Blue (violet blue)	0,131	0,046	14,96	5,25	94,00	27,44	82,70	-115,52	142,07	287	5,25	-2,09	-70,62	70,65	268
<i>achromatic colours and equations:</i> $a_{20} = 1,0; b_{20} = -0,4; x_c = 0,110; B_c = 0,8; A_{2d} = 2,5[a_{2d} - a_{2n}]Y_d; B_{2d} = 2,5B_c[b_{2d} - b_{2n}]Y_d; C_{AB_2,d} = [A_{2d}^2 + B_{2d}^2]^{1/2}; h_{AB_2,d} = \text{atan}[B_{2d} / A_{2d}]$ $a_n = x_w/y_w; b_n = -0,4[z_w/y_w]; a_d = x_d/y_d; b_d = -0,4[z_d/y_d]; z_d = 1 - x_d - y_d$ compare CIE 230:2019															
W_0 (white monitor, 100%)	0,312	0,329	95,05	100,00	108,90	100,00	0,00	0,00	0,00	0	100,00	0,00	0,00	0,00	0
W_1 (white monitor, 88,6%)	0,312	0,329	84,21	88,60	96,48	95,40	0,00	0,00	0,00	0	88,60	0,00	0,00	0,00	0
N_1 (black monitor, 2,5%)	0,312	0,329	2,37	2,50	2,72	18,00	0,00	0,00	0,00	0	2,50	0,00	0,00	0,00	0
N_0 (black monitor, 0,00%)	0,312	0,329	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0	0,00	0,00	0,00	0,00	0

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