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TUB registration: 20221101-DEQ4/DEQ4L0NP.PDF /.PS
application for measurement or viewing of display output

TUB material: code=rha4ta

Equal 9 step grey scaling between ΔL^* : 18.0_96.0 and ΔL^* : 14.4_125.1, normalisation: white W

$L^*_{0aN}=18.0$, $L^*_{0aU}=57.0$, $L^*_{0aW}=96.0$, $Y_{0aN}=2.5$, $Y_{0aU}=24.9$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=35.7$
 $L^*_{1aN}=14.4$, $L^*_{1aU}=69.7$, $L^*_{1aW}=125.1$, $Y_{1aN}=1.8$, $Y_{1aU}=40.4$, $Y_{1aW}=180.0$, $C_{1aY}=Y_{1aW}:Y_{1aN}=100.0$

L^*	n0.i	L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{1a}	L^*_{1r}	Y_{1a}	Y_{1r}	$Y_{1r}^{1/1.12}$	$(Y_{1r})^{1/1.12}-Y_{0r}$
100	9	96.0	1.0	90.0	1.0	125.1	1.0	180.0	1.0	1,000	0,000
	8	86.2	0.875	68.5	0.754	111.3	0.875	132.0	0.731	0,756	-0,002
75	7	76.5	0.75	50.7	0.551	97.4	0.75	93.5	0.514	0,553	-0,002
	6	66.7	0.625	36.3	0.386	83.6	0.625	63.3	0.345	0,386	-0,000
	5	57.0	0.5	24.9	0.256	69.7	0.5	40.4	0.217	0,255	0,001
50	4	47.2	0.375	16.2	0.156	55.9	0.375	23.8	0.124	0,155	0,001
	3	37.5	0.25	9.8	0.083	42.1	0.25	12.5	0.06	0,081	0,002
25	2	27.7	0.125	5.4	0.032	28.2	0.125	5.5	0.021	0,032	0,000
0	1	18.0	0.0	2.5	0.0	14.4	0.0	1.8	0.0	0,000	-0,000
semiglossy: ISO 9241-306 range: 2,5 <= Y <= 90 extrapolated surface colours range: 1,8 <= Y <= 180 $\Sigma=0,0001$											
$\Delta L^*_{ta}=9.7$ (i=1,2,...,9) $\Delta L^*_{ta}=13.8$ (i=1,2,...,9)											

DEQ40-3N

Equal 9 step grey scaling between ΔL^* : 18.0_96.0 and ΔL^* : 8.1_161.8, normalisation: white W

$L^*_{0aN}=18.0$, $L^*_{0aU}=57.0$, $L^*_{0aW}=96.0$, $Y_{0aN}=2.5$, $Y_{0aU}=24.9$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=35.7$
 $L^*_{1aN}=8.1$, $L^*_{1aU}=84.9$, $L^*_{1aW}=161.8$, $Y_{1aN}=0.9$, $Y_{1aU}=65.9$, $Y_{1aW}=360.0$, $C_{1aY}=Y_{1aW}:Y_{1aN}=399.9$

L^*	n0.i	L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{1a}	L^*_{1r}	Y_{1a}	Y_{1r}	$Y_{1r}^{1/1.25}$	$(Y_{1r})^{1/1.25}-Y_{0r}$
100	9	96.0	1.0	90.0	1.0	161.8	1.0	360.0	1.0	1,000	0,000
	8	86.2	0.875	68.5	0.754	142.6	0.875	255.4	0.709	0,759	-0,005
75	7	76.5	0.75	50.7	0.551	123.4	0.75	173.4	0.48	0,556	-0,005
	6	66.7	0.625	36.3	0.386	104.2	0.625	111.1	0.307	0,388	-0,002
	5	57.0	0.5	24.9	0.256	84.9	0.5	65.9	0.181	0,254	0,002
50	4	47.2	0.375	16.2	0.156	65.7	0.375	35.0	0.095	0,151	0,005
	3	37.5	0.25	9.8	0.083	46.5	0.25	15.7	0.041	0,077	0,006
25	2	27.7	0.125	5.4	0.032	27.3	0.125	5.2	0.012	0,029	0,003
0	1	18.0	0.0	2.5	0.0	8.1	0.0	0.9	0.0	0,001	-0,000
semiglossy: ISO 9241-306 range: 2,5 <= Y <= 90 extrapolated surface colours range: 0,9 <= Y <= 360 $\Sigma=0,0001$											
$\Delta L^*_{ta}=9.7$ (i=1,2,...,9) $\Delta L^*_{ta}=19.2$ (i=1,2,...,9)											

DEQ40-7N

Test chart DEQ4; Equal 9 step grey scaling for display reflection $Y_{ref}=0,0$, lightness ranges between black L^*_N & white L^*_W : 18_96 or 22,3_96 and 14,4_125,1 or 8,1_161,8; normalisation: white W

Equal 9 step grey scaling between ΔL^* : 22.4_96.0 and ΔL^* : 14.4_125.1, normalisation: white W

$L^*_{0aN}=22.4$, $L^*_{0aU}=59.2$, $L^*_{0aW}=96.0$, $Y_{0aN}=3.6$, $Y_{0aU}=27.2$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=24.8$
 $L^*_{1aN}=14.4$, $L^*_{1aU}=69.7$, $L^*_{1aW}=125.1$, $Y_{1aN}=1.8$, $Y_{1aU}=40.4$, $Y_{1aW}=180.0$, $C_{1aY}=Y_{1aW}:Y_{1aN}=100.0$

L^*	n0.i	L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{1a}	L^*_{1r}	Y_{1a}	Y_{1r}	$Y_{1r}^{1/1.18}$	$(Y_{1r})^{1/1.18}-Y_{0r}$
100	9	96.0	1.0	90.0	1.0	125.1	1.0	180.0	1.0	1,000	0,000
	8	86.8	0.875	69.6	0.764	111.3	0.875	132.1	0.731	0,766	-0,002
75	7	77.6	0.75	52.5	0.566	97.4	0.75	93.5	0.514	0,568	-0,002
	6	68.4	0.625	38.5	0.404	83.6	0.625	63.3	0.345	0,405	-0,001
	5	59.2	0.5	27.2	0.273	69.7	0.5	40.4	0.217	0,273	0,000
50	4	50.0	0.375	18.4	0.171	55.9	0.375	23.8	0.124	0,169	0,002
	3	40.8	0.25	11.7	0.094	42.1	0.25	12.5	0.06	0,091	0,003
25	2	31.6	0.125	6.9	0.038	28.2	0.125	5.5	0.021	0,037	0,001
0	1	22.4	0.0	3.6	0.0	14.4	0.0	1.8	0.0	0,000	-0,000
matte surface colours range: 3,6 <= Y <= 90 extrapolated surface colours range: 1,8 <= Y <= 180 $\Sigma=0,0001$											
$\Delta L^*_{ta}=9.2$ (i=1,2,...,9) $\Delta L^*_{ta}=13.8$ (i=1,2,...,9)											

DEQ41-3N

Equal 9 step grey scaling between ΔL^* : 22.4_96.0 and ΔL^* : 8.1_161.8, normalisation: white W

$L^*_{0aN}=22.4$, $L^*_{0aU}=59.2$, $L^*_{0aW}=96.0$, $Y_{0aN}=3.6$, $Y_{0aU}=27.2$, $Y_{0aW}=90.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=24.8$
 $L^*_{1aN}=8.1$, $L^*_{1aU}=84.9$, $L^*_{1aW}=161.8$, $Y_{1aN}=0.9$, $Y_{1aU}=65.9$, $Y_{1aW}=360.0$, $C_{1aY}=Y_{1aW}:Y_{1aN}=399.9$

L^*	n0.i	L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{1a}	L^*_{1r}	Y_{1a}	Y_{1r}	$Y_{1r}^{1/1.31}$	$(Y_{1r})^{1/1.31}-Y_{0r}$
100	9	96.0	1.0	90.0	1.0	161.8	1.0	360.0	1.0	1,000	0,000
	8	86.8	0.875	69.6	0.764	142.6	0.875	255.4	0.709	0,769	-0,005
75	7	77.6	0.75	52.5	0.566	123.4	0.75	173.4	0.48	0,572	-0,006
	6	68.4	0.625	38.5	0.404	104.2	0.625	111.1	0.307	0,406	-0,002
	5	59.2	0.5	27.2	0.273	84.9	0.5	65.9	0.181	0,271	0,002
50	4	50.0	0.375	18.4	0.171	65.7	0.375	35.0	0.095	0,166	0,005
	3	40.8	0.25	11.7	0.094	46.5	0.25	15.7	0.041	0,087	0,007
25	2	31.6	0.125	6.9	0.038	27.3	0.125	5.2	0.012	0,034	0,004
0	1	22.4	0.0	3.6	0.0	8.1	0.0	0.9	0.0	0,000	-0,000
matte surface colours range: 3,6 <= Y <= 90 extrapolated surface colours range: 0,9 <= Y <= 360 $\Sigma=0,0001$											
$\Delta L^*_{ta}=9.2$ (i=1,2,...,9) $\Delta L^*_{ta}=19.2$ (i=1,2,...,9)											

DEQ41-7N