

CIE02 tristimulus values, chromatic values, and putties ($n=1,4, n_0=0,5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.												
no.	O	C	tristimulus values and chromaticities			non-chromatic values			n-purities			
			X	Y	Z	x	y	z	λ_{max}	λ_{min}	P_{max}	P_{min}
00	396	31,24	12,19	76,69	0,260	0,101	0,638	72,3	-84,1	111,0	310	310
01	463	13,25	6,34	78,11	0,135	0,064	0,799	20,0	-89,1	91,3	282	282
02	466	13,27	8,01	79,21	0,132	0,079	0,788	13,4	-88,4	89,4	278	278
03	471	13,39	12,66	80,68	0,125	0,118	0,755	-4,4	-84,7	84,8	266	266
04	475B	14,00	19,21	81,44	0,122	0,167	0,710	-27,6	-77,9	82,7	250	250
05	479	15,61	27,50	81,85	0,124	0,220	0,655	-53,3	-68,9	87,1	232	232
06	481	18,42	36,66	82,05	0,134	0,267	0,598	-77,4	-58,9	97,2	217	217
07	483	20,35	41,45	82,11	0,141	0,288	0,570	-88,1	-53,6	103,1	211	211
08	484	22,64	46,29	82,14	0,149	0,306	0,543	-97,4	-48,4	108,8	206	206
09	485	25,29	51,06	82,16	0,159	0,322	0,518	-105,0	-43,3	113,6	202	202
10	486C	29,62	57,81	81,62	0,175	0,341	0,482	-113,2	-35,5	118,7	197	197
11	490	26,32	58,17	83,51	0,177	0,393	0,429	-126,0	-12,6	126,6	185	185
12	497	23,01	58,66	82,48	0,185	0,427	0,342	-138,6	13,8	139,6	174	174
13	501	22,62	59,57	83,18	0,192	0,507	0,299	-143,1	23,7	145,0	170	170
14	506	22,26	60,29	82,28	0,200	0,543	0,255	-149,6	47,4	157,0	162	162
15	519	21,83	61,02	82,06	0,218	0,610	0,170	-149,6	47,4	157,0	162	162
16	522G	24,04	63,42	81,06	0,230	0,606	0,163	-149,8	49,8	157,9	161	161
17	535	27,22	66,19	81,06	0,263	0,641	0,094	-136,1	69,6	152,8	152	152
18	544	35,20	72,16	81,06	0,306	0,629	0,063	-126,1	89,1	151,3	102	102
19	547	40,07	87,80	81,06	0,352	0,472	0,020	-72,3	84,1	111,0	310	310
20	568	83,05	93,65	4,13	0,459	0,517	0,022	-20,0	89,1	91,3	282	282
21	569	83,03	91,98	3,02	0,466	0,516	0,016	-13,4	88,4	89,4	98	98
22	571	82,92	87,33	1,55	0,482	0,508	0,009	-4,4	84,7	84,8	86	86
23	573Y	82,30	80,76	0,80	0,502	0,492	0,004	27,6	77,9	82,7	70	70
24	577	80,69	72,49	0,30	0,525	0,472	0,031	72,3	68,9	87,1	52	52
25	581	87,87	63,33	0,18	0,550	0,447	0,001	77,5	58,9	97,2	37	37
26	583	75,96	58,54	0,13	0,564	0,434	0,000	88,1	53,6	103,1	31	31
27	585	73,67	53,70	0,09	0,577	0,421	0,000	97,4	48,4	108,8	26	26
28	587	71,01	48,93	0,07	0,591	0,407	0,000	105,0	43,3	113,6	22	22
29	588	66,69	42,18	0,06	0,609	0,385	0,005	113,3	35,5	118,7	17	17
30	631	69,99	41,82	18,71	0,536	0,320	0,143	126,0	12,6	126,6	5	5
31	702	73,30	41,33	39,75	0,474	0,267	0,257	138,9	-13,8	139,6	354	354
32	706	73,69	40,41	47,04	0,457	0,250	0,291	143,1	-23,7	145,1	350	350
33	711	74,05	39,70	53,95	0,441	0,236	0,321	146,5	-33,0	150,2	347	347
34	724	74,48	38,97	65,18	0,416	0,218	0,364	149,6	-47,4	157,0	342	342
35	727M	72,26	36,57	65,17	0,415	0,210	0,374	149,8	-49,8	157,9	341	341
36	740	69,08	33,80	72,53	0,393	0,192	0,413	146,3	-61,3	158,7	337	337
37	749	61,10	27,83	74,91	0,372	0,169	0,457	136,0	-69,6	152,8	332	332
38	766	31,24	12,19	76,69	0,260	0,101	0,638	72,3	-84,1	111,0	310	310
39	828	13,25	6,34	78,11	0,135	0,064	0,799	20,0	-89,1	91,3	282	282
U-D50 96,31 99,99 82,24 0,345 0,358 0,358 0,0 0,0 0,0 0,0 0,0 0,0 0,0												
$a^*_{D50} = n_D \cdot P_{\text{max}} = 1,4[(5,645x - 2,666 + 2,570z)/y]$ $A_{\text{max}} = (a^* - a^*_Y) Y$ $C_{\text{ABW}} = [A_{\text{max}}^2 + B_{\text{max}}^2]^{1/2}$ $b^*_{D50} = n_D \cdot P_{\text{min}} = 0,5[(-1,871x + 1,457 - 3,861z)/y]$ $B_{\text{max}} = (b^* - b^*_Y) Y$ $C_{\text{ABW}} = \text{atan}[B_{\text{max}}/A_{\text{max}}]$												

CIE02 tristimulus values, chromatic values, and putties ($n=1,4, n_0=0,5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.												
no.	O	C	tristimulus values and chromaticities			non-chromatic values			n-purities			
			X	Y	Z	x	y	z	λ_{max}	λ_{min}	P_{max}	P_{min}
00	396	31,24	12,19	76,69	0,260	0,101	0,638	72,3	-84,1	111,0	310	310
01	463	13,25	6,34	78,11	0,135	0,064	0,799	20,0	-89,1	91,3	282	282
02	466	13,27	8,01	79,21	0,132	0,079	0,788	13,4	-88,4	89,4	278	278
03	471	13,39	12,66	80,68	0,125	0,118	0,755	-4,4	-84,7	84,8	266	266
04	475B	14,00	19,21	81,44	0,122	0,167	0,710	-27,6	-77,9	82,7	250	250
05	479	15,61	27,50	81,85	0,124	0,220	0,655	-53,3	-68,9	87,1	232	232
06	481	18,42	36,66	82,05	0,134	0,267	0,598	-77,4	-58,9	97,2	217	217
07	483	20,35	41,45	82,11	0,141	0,288	0,570	-88,1	-53,6	103,1	211	211
08	484	22,64	46,29	82,14	0,149	0,306	0,543	-97,4	-48,4	108,8	206	206
09	485	25,29	51,06	82,16	0,159	0,322	0,518	-105,0	-43,3	113,6	202	202
10	486C	29,62	57,81	81,62	0,175	0,341	0,482	-113,2	-35,5	118,7	197	197
11	490	26,32	58,17	83,51	0,177	0,393	0,429	-126,0	-12,6	126,6	185	185
12	497	23,01	58,66	82,48	0,185	0,427	0,342	-138,6	13,8	139,6	174	174
13	501	22,62	59,57	83,18	0,192	0,507	0,299	-143,1	23,7	145,0	170	170
14	506	22,26	60,29	82,28	0,200	0,543	0,255	-149,6	47,4	157,0	162	162
15	519	21,83	61,02	82,06	0,218	0,610	0,170	-149,6	47,4	157,0	162	162
16	522G	24,04	63,42	81,06	0,230	0,606	0,163	-149,8	49,8	157,9	161	161
17	535	27,22	66,19	81,06	0,263	0,641	0,094	-136,1	69,6	152,8	152	152
18	544	35,20	72,16	81,06	0,306	0,629	0,063	-126,1	89,1	151,3	102	102
19	547	40,07	87,80	81,06	0,352	0,472	0,020	-72,3	84,1	111,0	310	310
20	568	83,05	93,65	4,13	0,459	0,517	0,022	-20,0	89,1	91,3	282	282
21	569	83,03	91,98	3,02	0,466	0,516	0,016	-13,4	88,4	89,4	98	98
22	571	82,92	87,33	1,55	0,482	0,508	0,009	-4,4	84,7	84,8	86	86
23	573Y	82,30	80,76	0,80	0,502	0,492	0,004	27,6	77,9	82,7	70	70
24	577	80,69	72,49	0,30	0,525	0,472	0,031	72,3	68,9	87,1	52	52
25	581	87,87	63,33	0,18	0,550	0,447	0,001	77,5	58,9	97,2	37	37
26	583	75,96	58,54	0,13	0,564	0,434	0,000	88,1	53,6	103,1	31	31
27	585	73,67	53,70	0,09	0,577	0,421	0,000	97,4	48,4	108,8	26	26
28	587	71,01	48,93	0,07	0,591	0,407	0,000	105,0	43,3	113,6	22	22
29	588	66,69	42,18	0,06	0,609	0,385	0,005	113,3	35,5	118,7	17	17
30	631	69,99	41,82	18,71	0,536	0,320	0,143	126,0	12,6	126,6	5	5
31	702	73,30	41,33	39,75	0,474	0,267	0,257	138,9	-13,8	139,6	354	354
32	706	73,69	40,41	47,04	0,457	0,250	0,291	143,1	-23,7	145,1	350	350
33	711	74,05	39,70	53,95	0,441	0,236	0,321	146,5	-33,0	150,2	347	347
34	724	74,48	38,97	65,18	0,416	0,218	0,364	149,6	-47,4	157,0	342	342
35	727M	72,26	36,57	65,17	0,415	0,210	0,374	149,8	-49,8	157,9	341	341
36	740	69,08	33,80	72,53	0,393	0,192	0,413	146,3	-61,3	158,7	337	337
37	749	61,10	27,83	74,91	0,372	0,169	0,457	136,0	-69,6	152,8	332	332
38	766	31,24	12,19	76,69	0,260	0,101	0,638	72,3	-84,1	111,0	310	310
39	828	13,25	6,34	78,11	0,135	0,064	0,799	20,0	-89,1	91,3	282	282
U-D50 99,99 0,174 -0,459 0,491 290 0,0 0,0 0,0 0,0 0,0 0,0 0,0												
$a^*_{D50} = n_D \cdot P_{\text{max}} = 1,4[(5,645x - 2,666 + 2,570z)/y]$ $A_{\text{max}} = (a^* - a^*_Y) Y$ $C_{\text{ABW}} = [A_{\text{max}}^2 + B_{\text{max}}^2]^{1/2}$ $b^*_{D50} = n_D \cdot P_{\text{min}} = 0,5[(-1,871x + 1,457 - 3,861z)/y]$ $B_{\text{max}} = (b^* - b^*_Y) Y$ $C_{\text{ABW}} = \text{atan}[B_{\text{max}}/A_{\text{max}}]$												

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CIE02 tristimulus values, chromatic values, and putties ($n=1,4, n_0=0,5$).
Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by hue angle.

no.	O	C	tristimulus values and chromaticities	non-chromatic values							
			B_{chrom}	$B_{\text{non-chrom}}$							
00	631	69.99	41.82	18.71	0.536	0.320	0.143	126.0	12.6	14.6	365
01	702	73.30	41.33	38.75	0.474	0.267	0.257	138.9	13.8	13.9	354
02	706	73.69	40.41	47.04	0.457	0.250	0.291	143.1	23.7	14.5	350
03	711	74.05	39.70	53.95	0.441	0.236	0.321	146.5	30.0	15.0	347
04	724	74.48	38.97	65.18	0.416	0.218	0.364	149.6	47.2	15.4	343
05	727M	72.66	36.57	65.17	0.415	0.210	0.374	149.8	49.8	15.7	341
06	740	69.08	33.80	72.53	0.393	0.192	0.413	146.3	61.3	15.8	337
07	749	61.10	27.83	74.91	0.372	0.169	0.457	136.0	69.6	15.2	332
08	396	31.24	12.19	76.69	0.260	0.101	0.638	72.3	84.1	11.0	310
09	432	14.81	0.82	77.91	0.234	0.087	0.655	53.3	69.9	8.7	232
10	466	13.27	0.81	79.21	0.132	0.079	0.788	13.4	88.4	8.4	278
11	471	13.39	12.66	80.68	0.125	0.118	0.755	48.1	84.7	84.8	266
12	475B	14.00	19.21	81.44	0.122	0.167	0.710	27.6	77.9	82.7	250
13	483	15.61	27.70	81.85	0.101	0.234	0.655	53.3	69.9	8.7	232
14	484	14.82	26.41	82.14	0.134	0.267	0.585	57.1	69.9	12.6	230
15	484	20.35	41.45	82.11	0.141	0.288	0.570	88.1	53.6	10.3	211
16	484	22.64	46.29	82.14	0.149	0.306	0.543	97.4	48.4	10.8	206
17	485	25.29	51.86	82.16	0.159	0.322	0.518	110.5	43.3	11.6	202
18	486C	29.62	57.81	81.62	0.175	0.341	0.482	113.2	35.5	12.6	185
19	490	35.32	67.17	63.51	0.177	0.393	0.429	149.6	47.2	12.6	185
20	497	23.01	58.66	42.48	0.185	0.472	0.342	138.9	13.8	13.9	354
21	501	22.62	59.57	35.18	0.192	0.507	0.299	143.1	23.7	14.5	350
22	506	22.26	60.29	28.28	0.200	0.543	0.255	146.5	30.0	15.0	347
23	512	23.33	62.02	20.82	0.210	0.570	0.210	149.8	49.8	15.7	341
24	522	24.04	63.42	17.06	0.230	0.606	0.163	149.8	49.8	15.7	341
25	535	27.22	66.19	9.71	0.263	0.641	0.094	146.3	61.3	15.8	337
26	544	35.20	72.16	7.33	0.306	0.629	0.063	136.1	69.6	15.2	332
27	561	65.07	87.80	5.54	0.440	0.554	0.034	72.3	84.1	11.0	310
28	565	65.05	87.65	4.88	0.440	0.554	0.034	72.3	84.1	11.0	310
29	569	83.03	91.98	3.02	0.466	0.516	0.016	13.4	88.4	8.4	278
30	571	82.92	87.33	1.55	0.482	0.508	0.009	48.1	84.7	84.8	266
31	573	82.30	80.76	0.80	0.502	0.492	0.004	27.6	77.9	82.7	250
32	577Y	80.69	72.49	0.38	0.525	0.472	0.002	53.3	69.9	8.7	232
33	587	87.87	63.33	0.13	0.564	0.440	0.000	113.2	35.5	12.6	185
34	583	79.56	58.44	0.13	0.554	0.442	0.000	88.1	53.6	10.3	31
35	585	73.67	53.70	0.09	0.571	0.427	0.000	97.4	48.4	10.8	26
36	587R	71.01	48.93	0.07	0.591	0.401	0.000	105.0	43.3	11.6	26
37	586	66.69	42.18	0.06	0.606	0.385	0.005	113.3	35.5	12.6	17
38	631	69.99	41.82	18.71	0.536	0.320	0.143	126.0	12.6	14.6	365
39	702	73.30	41.33	38.75	0.474	0.267	0.257	138.9	13.8	13.9	354
$u = D_{50} \quad 96.31 \quad 19.99 \quad 82.24 \quad 0.34 \quad 0.34 \quad 0.358 \quad 0.358 \quad 0.0 \quad 0.0 \quad 0.0 \quad 0.0$											
$a = D_{50} \quad 13.96 \quad 13.96 \quad 13.96 \quad 0.51(4.654x - 2.666 + 2.570z/y) \quad A_{50} = (a - 0.0) \quad C_{\text{Amm}} = [A_{50}^2 - B_{50}^2]^{1/2}$											
$b = D_{50} \quad -p_{50} - p_{50} \cdot 0.5(-1.871x + 1.577 + 3.861z/y) \quad B_{50} = (b - 0) \quad y = 1 - A_{50}^2 - B_{50}^2 \quad 149.6 \rightarrow 47.2 \quad 12.6 \rightarrow 15.8$											

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see similar files: <http://farbe.li.tu-berlin.de/DE74/DE74L0NA.TXT>
technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmatrik>

TUB registration: 20180801-DE74/DE74L0NA.TXT /PS
application for measurement of offset print output

TUB material: code=rha4ta

CIE10 tristimulus values, chromatic values, and putties ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.									
no.	O	C	tristimulus values and chromaticities			nu-chromatic values			
λ	X	Y	Z	x	y	x_{AB}	y_{AB}	h_{AB}	$h_{AB}^{1/2}$
00	376	55.24	26.06	71.08	0.362	0.171	0.466	118.6	-66.2
01	458	13.22	7.40	75.87	0.136	0.076	0.786	15.9	-85.2
02	460	13.26	8.89	77.33	0.133	0.089	0.777	10.0	-85.2
03	462	13.28	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
04	468	13.28	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
05	468	13.28	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
06	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
07	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
08	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
09	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
10	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
11	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
12	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
13	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
14	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
15	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
16	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
17	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
18	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
19	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
20	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
21	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
22	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
23	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
24	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
25	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
26	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
27	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
28	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
29	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
30	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
31	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
32	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
33	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
34	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
35	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
36	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
37	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
38	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
39	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
40	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
41	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
42	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
43	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
44	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
45	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
46	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
47	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
48	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
49	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
50	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
51	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
52	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
53	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
54	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
55	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
56	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
57	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
58	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
59	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
60	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
61	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
62	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
63	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
64	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
65	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
66	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
67	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
68	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
69	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
70	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
71	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
72	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
73	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
74	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
75	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
76	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
77	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
78	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
79	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
80	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
81	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
82	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
83	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
84	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
85	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
86	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
87	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
88	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
89	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
90	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
91	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
92	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
93	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
94	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
95	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
96	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
97	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
98	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
99	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
100	472	13.26	10.68	78.42	0.129	0.104	0.765	2.9	-84.4

CIE10 tristimulus values, chromatic values, and putties ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.									
no.	O	C	n-purities			n ₀ -purities			
λ	X	Y	Z	x_{AB}	y_{AB}	x_{AB}	y_{AB}	h_{AB}	$h_{AB}^{1/2}$
00	376	26.06	74.1	2.98	0.60	4.35	-14.52	11.31	3.36
01	458	7.40	2.34	-1.056	12.19	2.81	2.15	-11.51	11.72
02	460	8.89	1.31	-10.02	10.11	277	1.12	-9.58	9.64
03	462	10.68	0.46	-8.35	8.36	273	0.27	-7.90	7.91
04	468	10.68	0.46	-8.35	8.36	273	0.27	-7.90	7.91
05	472	17.92	0.51	-1.30	1.53	248	-0.09	2.59	2.52
06	474	24.41	-1.66	-3.37	3.76	243	-1.85	-2.92	3.46
07	473	28.17	-1.80	-2.83	3.36	237	-1.99	-2.39	3.31
08	475	36.37	-1.93	-2.05	3.62	226	-2.16	-1.60	2.66
09	477	45.10	-1.90	-1.53	2.44	218	-2.09	-1.09	2.36
10	478	54.10	-1.90	-1.53	2.44	218	-2.09	-1.09	2.36
11	479	53.94	-1.78	-1.18	2.14	213	-1.97	-0.74	2.10
12	480	58.21	-1.71	-1.01	1.99	210	-1.90	-0.56	1.99
13	484	56.42	-1.97	-0.63	2.07	197	-2.16	-0.19	2.17
14	492	56.65	-2.16	-0.16	2.17	184	-2.35	0.28	2.37
15	503	57.40	-2.22	0.14	2.22	176	-2.41	0.38	2.48
16	504	58.45	-2.38	0.17	2.38	173	-2.48	0.41	2.52
17	521	60.61	-2.09	0.37	2.12	169	-2.28	0.81	2.42
18	531	64.47	-1.87	0.44	1.92	166	-2.06	0.89	2.25
19	541	73.93	-1.41	0.44	1.48	162	-1.60	0.92	1.83
20	563	92.99	0.01	0.47	0.47	87	-0.17	0.92	1.03
21	564	91.09	0.01	0.47	0.47	80	-0.14	0.93	1.00
22	565	89.31	0.15	0.49	0.52	72	-0.03	0.94	0.94
23	565Y	89.31	0.15	0.49	0.52	72	-0.03	0.94	0.94
24	568	82.07	0.48	0.50	0.69	46	0.29	0.95	0.99
25	571	75.38	0.78	0.49	0.93	32	0.59	0.94	1.11
26	573	71.82	0.97	0.50	1.09	26	0.78	0.94	1.22
27	577	63.62	1.40	0.47	0.47	18	1.21	0.91	1.52
28	581	54.89	1.91	0.44	1.96	13	1.72	0.89	1.94
29	581R	54.89	1.91	0.44	1.96	13	1.72	0.89	1.94
30	587	46.05	2.50	0.41	2.53	9	2.31	0.86	2.46
31	589	44.04	2.66	0.38	2.69	8	2.47	0.83	2.61
32	593	43.57	2.80	0.36	2.80	356	2.80	0.82	2.80
33	697	43.34	3.26	-0.82	3.36	345	3.07	-0.37	3.10
34	708	42.59	3.44	-1.24	3.65	340	3.25	-0.79	3.34
35	717M	41.54	3.54	-1.45	3.82	337	3.35	-1.00	3.49
36	726	39.38	3.70	-1.70	4.07	333	3.51	-1.26	3.73
37	735	35.52	3.86	-2.00	4.33	332	3.75	-1.52	3.86
38	746	26.06	4.74	-2.98	5.60	327	4.55	-2.54	5.21
39	823	7.40	2.34	-11.96	12.19	281	2.15	-11.52	11.72
U=50	100.00	0.189	-0.447	0.485	292	0.0	0.0	0.0	0.0
$a_{p-p_0} = p_{-p_0} - 1.4(6.545 + 2.666 + 2.570)y_{AB}$ $A_{AB} = (a-b)y_{AB}$ $C_{AB} = A_{AB}B_{AB}$									
$b_{p-p_0} = p_{-p_0} - 1.5(-1.871 + 1.457 + 3.861)y_{AB}$ $B_{AB} = (b-a)y_{AB}$ $C_{AB} = A_{AB}B_{AB}$									

see similar files: <http://farbe.li.tu-berlin.de/DE74/DE74.HTM>
technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20180801-DE74/DE74L0NA.TXT /PS
application for measurement of offset print output

TUB material: code=rha4ta

CIEF02 tristimulus values, chromatic values, and putities ($n_0=1.4, n_b=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.											
no.	O	C	tristimulus values and chromaticities			nu-chromatic values			nu-putities		
			X	Y	Z	x	y	z	λ_{ab}	λ_{ab}	λ_{ab}
00	386	51.50	23.94	74.68	0.343	0.159	0.497	111.1	-72.0	132.4	327
01	460	12.38	6.54	76.19	0.130	0.068	0.801	15.8	-86.3	87.8	280
02	465	12.41	9.58	78.25	0.123	0.095	0.780	3.7	-85.2	85.3	272
03	467	14.25	11.64	78.87	0.120	0.113	0.766	-4.2	-83.5	83.6	267
04	473	13.31	20.43	79.83	0.117	0.179	0.702	-35.1	-74.4	82.3	244
05	475	14.02	24.19	79.97	0.118	0.204	0.676	-46.9	-70.3	84.5	236
06	479	17.82	36.91	80.16	0.132	0.273	0.594	-80.9	-56.2	98.5	214
07	479	17.82	36.91	80.16	0.132	0.273	0.594	-80.9	-56.2	98.5	214
08	481	21.98	46.03	80.19	0.148	0.310	0.541	-99.2	-46.2	109.4	205
09	481	21.98	46.03	80.19	0.148	0.310	0.541	-99.2	-46.2	109.4	205
10	483C	25.92	55.03	80.21	0.169	0.338	0.492	-111.3	-36.3	117.2	198
11	484	28.85	57.21	79.07	0.174	0.346	0.478	-114.1	-33.0	118.8	196
12	489	25.36	57.41	57.70	0.180	0.408	0.410	-126.6	-6.4	126.7	182
13	497	22.33	57.50	36.81	0.191	0.492	0.315	-136.8	19.4	138.1	171
14	505	21.31	58.03	24.30	0.205	0.559	0.234	-141.4	35.3	145.8	165
15	512	21.41	58.69	18.79	0.216	0.593	0.190	-142.8	42.7	149.1	163
16	521G	22.42	59.91	14.10	0.232	0.621	0.146	-142.8	49.5	151.1	160
17	524	25.32	62.97	14.10	0.247	0.615	0.137	-142.6	52.6	152.0	159
18	539	30.29	66.55	7.57	0.290	0.637	0.072	-135.0	63.6	149.3	154
19	541	44.95	76.05	0.54	0.559	0.487	0.042	-110.8	74.5	133.4	146
20	568	84.08	93.45	4.02	0.463	0.514	0.022	-15.4	88.7	90.1	99
21	568	84.08	93.45	4.02	0.463	0.514	0.022	-15.4	88.7	90.1	99
22	569	84.05	90.41	1.96	0.476	0.512	0.011	-3.4	87.6	87.7	92
23	570Y	84.00	88.35	1.33	0.483	0.508	0.007	4.4	85.9	86.1	87
24	573	83.15	79.56	0.38	0.509	0.487	0.002	35.4	76.8	84.6	65
25	575	82.44	75.02	0.24	0.520	0.478	0.001	47.2	72.7	86.7	56
26	580	78.64	63.07	0.05	0.554	0.444	0.000	81.2	58.5	100.1	35
27	580	78.64	63.07	0.05	0.554	0.444	0.000	81.2	58.5	100.1	35
28	585	74.48	53.96	0.02	0.579	0.420	0.000	99.5	48.6	110.7	26
29	591	68.94	44.96	0.00	0.605	0.394	0.000	111.6	39.1	118.3	19
30	592	67.61	42.78	1.14	0.606	0.383	0.010	114.4	35.4	119.8	17
31	694	71.10	42.58	22.52	0.522	0.312	0.165	126.9	8.7	127.2	3
32	702	74.12	42.49	43.40	0.463	0.265	0.271	137.0	-17.0	138.1	352
33	710	75.15	41.96	55.91	0.434	0.242	0.323	141.7	-32.9	145.5	346
34	717	75.05	41.30	61.43	0.422	0.232	0.345	143.1	-40.3	148.7	344
35	726G	74.04	40.08	66.11	0.410	0.222	0.366	143.1	-47.1	150.7	341
36	729	71.14	37.02	66.11	0.408	0.212	0.379	143.0	-50.2	151.5	340
37	744	66.16	33.43	72.64	0.384	0.194	0.421	135.3	-61.2	148.5	335
38	756	51.50	23.94	74.68	0.343	0.159	0.497	111.1	-72.0	132.4	327
39	825	12.38	6.54	76.19	0.130	0.068	0.801	15.8	-86.3	87.8	280
U=D50 96.46 100.00 82.22 0.346 0.358 0.358 0.0 0.0 0.0 0.0 0.0 0.0											
$a^*_{p_{nm}}=n_p p_{nm} A_i [5.645x-2.666+2.570z]/y$ $A_i=(a^*-a_i)/Y$ $C_{ABnm}=[A_i^2+B_i^2+M_i^2]^{1/2}$											
$b^*_{p_{nm}}=n_p p_{nm} B_i [(-1.871x+1.457-3.861z)/y]$ $B_i=(b^*-b_i)/Y$ $h_{ABnm}=\text{atan2}(B_i/M_i, A_i/M_i)$											
DE740-7N											

CIEF02 tristimulus values, chromatic values, and putities ($n_0=1.4, n_b=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.											
no.	O	C	tristimulus values and chromaticities			nu-chromatic values			nu-putities		
			X	Y	Z	x	y	z	λ_{ab}	λ_{ab}	λ_{ab}
00	386	51.50	23.94	74.68	0.343	0.159	0.497	111.1	-72.0	132.4	327
01	460	12.38	6.54	76.19	0.130	0.068	0.801	15.8	-86.3	87.8	280
02	465	12.41	9.58	78.25	0.123	0.095	0.780	3.7	-85.2	85.3	272
03	467	14.25	11.64	78.87	0.120	0.113	0.766	-4.2	-83.5	83.6	267
04	473	13.31	20.43	79.83	0.117	0.179	0.702	-35.1	-74.4	82.3	244
05	475	14.02	24.19	79.97	0.118	0.204	0.676	-46.9	-70.3	84.5	236
06	479	17.82	36.91	80.16	0.132	0.273	0.594	-80.9	-56.2	98.5	214
07	479	17.82	36.91	80.16	0.132	0.273	0.594	-80.9	-56.2	98.5	214
08	481	21.98	46.03	80.19	0.148	0.310	0.541	-99.2	-46.2	109.4	205
09	481	21.98	46.03	80.19	0.148	0.310	0.541	-99.2	-46.2	109.4	205
10	483C	25.92	55.03	80.21	0.169	0.338	0.492	-111.3	-36.3	117.2	198
11	484	28.85	57.21	79.07	0.174	0.346	0.478	-114.1	-33.0	118.8	196
12	489	25.36	57.41	57.70	0.180	0.408	0.410	-126.6	-6.4	126.7	182
13	497	22.33	57.50	36.81	0.191	0.492	0.315	-136.8	19.4	138.1	171
14	505	21.31	58.03	24.30	0.205	0.559	0.234	-141.4	35.3	145.8	165
15	512	21.41	58.69	18.79	0.216	0.593	0.190	-142.8	42.7	149.1	163
16	521G	22.42	59.91	14.10	0.232	0.621	0.146	-142.8	49.5	151.1	160
17	524	25.32	62.97	14.10	0.247	0.615	0.137	-142.6	52.6	152.0	159
18	539	30.29	66.55	7.57	0.290	0.637	0.072	-135.0	63.6	149.3	154
19	541	44.95	76.05	0.54	0.559	0.487	0.042	-110.8	74.5	133.4	146
20	568	84.08	93.45	4.02	0.463	0.514	0.022	-15.4	88.7	90.1	99
21	568	84.08	93.45	4.02	0.463	0.514	0.022	-15.4	88.7	90.1	99
22	569	84.05	90.41	1.96	0.476	0.512	0.011	-3.4	87.6	87.7	92
23	570Y	84.00	88.35	1.33	0.483	0.508	0.007	4.4	85.9	86.1	87
24	573	83.15	79.56	0.38	0.509	0.487	0.002	35.4	76.8	84.6	65
25	575	82.44	75.02	0.24	0.520	0.478	0.001	47.2	72.7	86.7	56
26	580	78.64	63.07	0.05	0.554	0.444	0.000	81.2	58.5	100.1	35
27	580	78.64	63.07	0.05	0.554	0.444	0.000	81.2	58.5	100.1	35
28	585	74.48	53.96	0.02	0.579	0.420	0.000	99.5	48.6	110.7	26
29	591	68.94	44.96	0.00	0.605	0.394	0.000	111.6	39.1	118.3	19
30	592	67.61	42.78	1.14	0.606	0.383	0.010	114.4	35.4	119.8	17
31	694	71.10	42.58	22.52	0.522	0.312	0.165	126.9	8.7	127.2	3
32	702	74.12	42.49	43.40	0.463	0.265	0.271	137.0	-17.0	138.1	352
33	710	75.15	41.96	55.91	0.434	0.242	0.323	141.7	-32.9	145.5	346
34	717	75.05	41.30	61.43	0.422	0.232	0.345	143.1	-40.3	148.7	344
35	726G	74.04	40.08	66.11	0.410	0.222	0.366	143.1	-47.1	150.7	341
36	729	71.14	37.02	66.11	0.408	0.212	0.379	143.0	-50.2	151.5	340
37	744	66.16	33.43	72.64	0.384	0.194	0.421	135.3	-61.2	148.5	335
38	756	51.50	23.94	74.68	0.343	0.159	0.497	111.1	-72.0	132.4	327
39	825	12.38	6.54	76.19	0.130	0.068	0.801	15.8	-86.3	87.8	280
U=D50 96.46 100.00 82.22 0.346 0.358 0.358 0.0 0.0 0.0 0.0 0.0 0.0											
$a^*_{p_{nm}}=n_p p_{nm} A_i [5.645x-2.666+2.570z]/y$ $A_i=(a^*-a_i)/Y$ $C_{ABnm}=[A_i^2+B_i^2+M_i^2]^{1/2}$											
$b^*_{p_{nm}}=n_p p_{nm} B_i [(-1.871x+1.457-3.861z)/y]$ $B_i=(b^*-b_i)/Y$ $h_{ABnm}=\text{atan2}(B_i/M_i, A_i/M_i)$											
DE740-7N											

CIEF02 tristimulus values, chromatic values, and putities ($n_0=1.4, n_b=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by hue angle.											
no.	O	C	tristimulus values and chromaticities			nu-chromatic values			nu-putities		
			X	Y	Z	x	y	z	λ_{ab}	λ_{ab}	λ_{ab}
00	592	67.61	42.78	114	0.606	0.383	0.101	114.4	35.4	118.1	327
01	694	71.10	22.58	22.52	0.132	0.032	0.165	126.9	87	127.7	280
02	702	74.12	42.49	43.40	0.463	0.265	0.271	137.0	170	138.1	327
03	710	75.15	41.96	55.91	0.343	0.242	0.247	147.0	147	147.0	327
04	717	75.05	41.30	61.43	0.422	0.235	0.345	149.1	-40.3	149.1	327
05	726	74.14	40.08	66.11	0.410	0.222	0.366	143.1	-47.1	150.1	327
06	729	71.14	37.02	66.11	0.408	0.212	0.379	143.0	-50.1	151.1	327
07	744	66.16	33.43	72.64	0.384	0.194	0.421	135.3	-61.2	148.1	327
08	749	66.16	33.43	72.64	0.384	0.194	0.421	135.3	-61.2	148.1	327
09	460	12.38	6.54	76.19	0.130	0.068	0.801	15.8	-86.3	87.8	280
10	465	12.41	9.58	78.25	0.123	0.095	0.780	3.7	-85.2	85.3	280
11	467	12.45	11.64	78.87	0.120	0.113	0.766	4.2	-83.5	83.6	280
12	473	13.31	20.43	79.83	0.117	0.179	0.702	-35.1	-74.4	82.3	280
13	478	13.31	20.43	79.83	0.117	0.179	0.702	-35.1	-74.4	82.3	280
14	479	17.82	36.91	80.16	0.132	0.273	0.594	-80.9	-56.2	98.5	280
15	479	17.82	36.91	80.16	0.132	0.273	0.594	-80.9	-56.2	98.5	280
16	481	21.98	46.03	80.19	0.148	0.310	0.541	-99.2	-46.2	109.1	280
17	484	21.98	46.03	80.19	0.148	0.310	0.541	-99.2	-46.2	109.1	280
18	484	26.85	57.21	79.07	0.174	0.346	0.478	-114.1	-33.0	118.1	280
19	484	26.85	57.21	79.07	0.174	0.346	0.478	-114.1	-33.0	118.1	280
20	489	25.36	57.41	57.70	0.180	0.408	0.410	-126.6	-6.4	126.1	280
21	497	22.33	57.50	36.81	0.191	0.492	0.315	-136.8	19.4	138.1	280
22	505	21.31	58.03	24.30	0.205	0.559	0.234	-144.1	35.3	145.1	280
23	505	21.31	58.03	24.30	0.205	0.559	0.234	-144.1	35.3	145.1	280
24	521	22.42	59.91	14.10	0.232	0.621	0.146	-142.8	9.5	151.1	280
25	524	25.32	62.97	14.10	0.247	0.615	0.137	-142.6	52.6	152.1	280
26	539	30.29	66.55	7.57	0.290	0.637	0.072	-135.0	63.2	159.1	280
27	551	35.14	76.06	5.53	0.355	0.601	0.043	-110.8	43.3	133.1	280
28	564	84.08	93.45	0.42	0.463	0.514	0.022	-15.4	88.7	90.1	280
29	568	84.08	93.45	0.42	0.463	0.514	0.022	-15.4	88.7	90.1	280
30	569	84.05	94.01	1.96	0.476	0.512	0.011	-3.4	87.6	87.7	280
31	570	84.00	98.35	1.33	0.483	0.508	0.007	-4.4	85.9	86.1	280
32	573	83.13	79.56	0.38	0.509	0.487	0.002	35.4	76.8	84.6	280
33	573	83.13	79.56	0.38	0.509	0.487	0.002	35.4	76.8	84.6	280
34	580	78.64	63.07	0.05	0.554	0.444	0.000	81.2	58.5	100.1	280
35	580	78.64	63.07	0.05	0.554	0.444	0.000	81.2	58.5	100.1	280
36	583	74.48	53.96	0.02	0.579	0.420	0.000	99.5	48.6	110.1	280
37	583	74.48	53.96	0.02	0.579	0.420	0.000	99.5	48.6	110.1	280
38	588	67.61	42.78	0.606	0.383	0.101	114.4	35.4	118.1	327	
39	694	71.10	22.58	22.52	0.132	0.032	0.165	126.9	87	127.7	280
U=D50 96.46 100.00 82.22 3.46 0.38 0.58 0.00 0.00 0.00											
$a_{F00} = m_{F00} \cdot Y_w \cdot [1, (5.645x + 2.666z - 2.570)y]$ $a_{F00} = (a_{F00})_Y$ $C_{Abm} = [A_{ab}^2, e^2, e^2]$											
$b_{F00} = m_{F00} \cdot Y_w \cdot [1, (-1.817x + 1.457 - 3.861)z]$ $b_{F00} = (b_{F00})_Y$ $h_{Abm} = 2\pi \cdot \arctan \frac{b_{Abm}}{a_{Abm}}$											

CIEF10 tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.												
no.	O	C	tristimulus values and chromaticities			nu-chromatic values			nu-putities			
			X	Y	Z	x	y	z	λ_B	λ_C	λ_M	$\lambda_{h_{AB}}$
00	380	52.92	25.78	74.65	0.345	0.168	0.486	109.4	-70.4	130.1	327	
01	455	13.14	6.61	74.65	0.139	0.070	0.773	18.8	-84.7	86.7	282	
02	460	13.28	9.49	77.94	0.131	0.094	0.773	7.6	-85.3	85.6	275	
03	462	13.39	11.32	78.97	0.128	0.109	0.762	0.4	-84.4	84.4	270	
04	464	13.34	13.45	79.69	0.125	0.126	0.748	-7.8	-82.7	83.1	264	
05	468	13.69	18.67	80.47	0.121	0.165	0.713	-27.0	-77.6	82.2	250	
06	471	14.73	25.21	80.80	0.121	0.208	0.669	-48.4	-70.5	85.5	235	
07	472	15.63	28.96	80.89	0.124	0.230	0.644	-59.3	-66.4	89.1	228	
08	475	18.33	37.06	80.98	0.134	0.271	0.593	-79.9	-57.6	98.5	215	
09	477	22.39	45.70	81.01	0.150	0.306	0.543	-96.9	-48.3	108.3	206	
10	477C	24.94	50.08	81.01	0.159	0.320	0.519	-103.4	-43.7	112.3	202	
11	479	30.58	58.60	78.68	0.182	0.349	0.468	-113.1	-32.1	117.5	195	
12	479	29.07	56.38	80.12	0.175	0.340	0.483	-110.8	-36.1	116.6	198	
13	484	25.63	56.72	59.32	0.180	0.400	0.418	-123.7	-10.0	124.1	184	
14	492	22.37	56.85	36.73	0.192	0.490	0.316	-134.8	17.9	136.0	172	
15	503	21.57	57.63	22.95	0.211	0.564	0.224	-139.3	35.6	143.8	165	
16	511G	22.30	58.68	17.25	0.227	0.597	0.175	-139.7	43.5	146.3	162	
17	521	24.56	60.88	12.62	0.250	0.620	0.128	-138.2	51.2	147.4	159	
18	532	29.89	65.12	9.04	0.287	0.625	0.086	-132.2	59.4	145.0	155	
19	545	43.82	74.21	6.37	0.452	0.596	0.051	-108.4	84.6	86.7	102	
20	563	83.59	93.38	6.37	0.455	0.509	0.034	-108.8	84.6	86.7	102	
21	564	83.45	90.50	3.08	0.471	0.511	0.017	-7.6	85.3	85.6	95	
22	565	83.43	88.67	2.06	0.479	0.509	0.011	-0.4	84.3	84.3	90	
23	566Y	83.29	86.54	1.34	0.486	0.505	0.007	7.8	82.7	83.1	84	
24	568	83.04	81.32	0.56	0.503	0.493	0.003	27.0	77.6	82.2	70	
25	571	82.00	74.78	0.23	0.522	0.476	0.001	48.4	70.5	85.5	55	
26	573	81.10	71.03	0.14	0.532	0.466	0.000	59.3	66.4	89.1	48	
27	577	78.40	62.93	0.05	0.554	0.445	0.000	79.9	57.6	98.5	35	
28	581	74.33	54.29	0.02	0.577	0.421	0.000	96.9	48.3	108.3	26	
29	584R	71.79	49.91	0.01	0.589	0.410	0.000	103.4	43.7	112.3	22	
30	591	66.15	41.39	2.33	0.602	0.376	0.021	113.1	32.1	117.5	15	
31	588	67.67	43.61	0.91	0.603	0.388	0.008	110.9	36.1	116.6	18	
32	689	71.10	43.27	21.71	0.522	0.317	0.159	123.7	9.9	124.1	4	
33	697	74.36	43.14	44.30	0.459	0.266	0.273	134.8	-17.9	136.0	352	
34	708	75.16	42.36	58.08	0.428	0.241	0.300	139.3	-35.6	143.8	345	
35	716T	74.43	41.31	63.78	0.414	0.230	0.353	138.2	-51.2	147.4	339	
36	726	72.17	39.11	68.41	0.401	0.217	0.380	132.2	-59.4	145.0	335	
37	737	66.83	34.86	71.99	0.384	0.200	0.414	123.7	-9.9	124.1	327	
38	750	52.92	25.78	74.65	0.345	0.168	0.486	109.4	-70.4	130.1	327	
39	820	13.14	6.61	74.65	0.139	0.070	0.773	18.8	-84.7	86.7	282	
U=D50 96.74 100.00 81.03 0.348 0.360 0.360 0.0 0.0 0.0 0												
$a^*_{p_{nm}}=n_p \cdot 1.4[(5.645x-2.666+2.570z)/y]$ $A_{nm}=(a^*-a_u)Y$ $C_{ABnm}=[A^2+B^2+M^2]^{1/2}$												
$b^*_{p_{nm}}=n_p \cdot 0.5[(-1.871x+1.457-3.861z)/y]$ $B_{nm}=(b-b_u)Y$ $h_{ABnm}=\arctan(B_{nm}/A_{nm})$												

CIEF10 tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.												
no.	O	C	tristimulus values and chromaticities			nu-chromatic values			nu-putities			
			X	Y	Z	x	y	z	λ_B	λ_C	λ_M	$\lambda_{h_{AB}}$
00	380	52.92	25.78	74.65	0.345	0.168	0.486	109.4	-70.4	130.1	327	
01	455	13.14	6.61	74.65	0.139	0.070	0.773	18.8	-84.7	86.7	282	
02	460	13.28	9.49	77.94	0.131	0.094	0.773	7.6	-85.3	85.6	275	
03	462	13.39	11.32	78.97	0.128	0.109	0.762	0.4	-84.4	84.4	270	
04	464	13.34	13.45	79.69	0.125	0.126	0.748	-7.8	-82.7	83.1	264	
05	468	13.69	18.67	80.47	0.121	0.165	0.713	-27.0	-77.6	82.2	250	
06	471	14.73	25.21	80.80	0.121	0.208	0.669	-48.4	-70.5	85.5	235	
07	472	15.63	28.96	80.89	0.124	0.230	0.644	-59.3	-66.4	89.1	228	
08	475	18.33	37.06	80.98	0.134	0.271	0.593	-79.9	-57.6	98.5	215	
09	477	22.39	45.70	81.01	0.150	0.306	0.543	-96.9	-48.3	108.3	206	
10	477C	24.94	50.08	81.01	0.159	0.320	0.519	-103.4	-43.7	112.3	202	
11	479	30.58	58.60	78.68	0.182	0.349	0.468	-113.1	-32.1	117.5	195	
12	479	29.07	56.38	80.12	0.175	0.340	0.483	-110.8	-36.1	116.6	198	
13	484	25.63	56.72	59.32	0.180	0.400	0.418	-123.7	-10.0	124.1	184	
14	492	22.37	56.85	36.73	0.192	0.490	0.316	-134.8	17.9	136.0	172	
15	503	21.57	57.63	22.95	0.211	0.564	0.224	-139.3	35.6	143.8	165	
16	511G	22.30	58.68	17.25	0.227	0.597	0.175	-139.7	43.5	146.3	162	
17	521	24.56	60.88	12.62	0.250	0.620	0.128	-138.2	51.2	147.4	159	
18	532	29.89	65.12	9.04	0.287	0.625	0.086	-132.2	59.4	145.0	155	
19	545	43.82	74.21	6.37	0.452	0.596	0.051	-108.4	84.6	86.7	102	
20	563	83.59	93.38	6.37	0.455	0.509	0.034	-108.8	84.6	86.7	102	
21	564	83.45	90.50	3.08	0.471	0.511	0.017	-7.6	85.3	85.6	95	
22	565	83.43	88.67	2.06	0.479	0.509	0.011	-0.4	84.3	84.3	90	
23	566Y	83.29	86.54	1.34	0.486	0.505	0.007	7.8	82.7	83.1	84	
24	568	83.04	81.32	0.56	0.503	0.493	0.003	27.0	77.6	82.2	70	
25	571	82.00	74.78	0.23	0.522	0.476	0.001	48.4	70.5	85.5	55	
26	573	81.10	71.03	0.14	0.532	0.466	0.000	59.3	66.4	89.1	48	
27	577	78.40	62.93	0.05	0.554	0.445	0.000	79.9	57.6	98.5	35	
28	581	74.33	54.29	0.02	0.577	0.421	0.000	96.9	48.3	108.3	26	
29	584R	71.79	49.91	0.01	0.589	0.410	0.000	103.4	43.7	112.3	22	
30	591	66.15	41.39	2.33	0.602	0.376	0.021	113.1	32.1	117.5	15	
31	588	67.67	43.61	0.91	0.603	0.388	0.008	110.9	36.1	116.6	18	
32	689	71.10	43.27	21.71	0.522	0.317	0.159	123.7	9.9	124.1	4	
33	697	74.36	43.14	44.30	0.459	0.266	0.273	134.8	-17.9	136.0	352	
34	708	75.16	42.36	58.08	0.428	0.241	0.300	139.3	-35.6	143.8	345	
35	716T	74.43	41.31	63.78	0.414	0.230	0.353	138.2	-51.2	147.4	339	
36	726	72.17	39.11	68.41	0.401	0.217	0.380	132.2	-59.4	145.0	335	
37	737	66.83	34.86	71.99	0.384	0.200	0.414	123.7	-9.9	124.1	327	
38	750	52.92	25.78	74.65	0.345	0.168	0.486	109.4	-70.4	130.1	327	
39	820	13.14	6.61	74.65	0.139	0.070	0.773	18.8	-84.7	86.7	282	
U=D50 100.00 0.193 -0.445 0.486 293 0.0 0.0 0.0 0												
$a^*_{p_{nm}}=n_p \cdot 1.4[(5.645x-2.666+2.570z)/y]$ $A_{nm}=(a^*-a_u)Y$ $C_{ABnm}=[A^2+B^2+M^2]^{1/2}$												
$b^*_{p_{nm}}=n_p \cdot 0.5[(-1.871x+1.457-3.861z)/y]$ $B_{nm}=(b-b_u)Y$ $h_{ABnm}=\arctan(B_{nm}/A_{nm})$												

CIEF10 tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by hue angle.												
no.	O	tristimulus values and chromaticities					nu-chromatic values					
		λ	X	Y	Z	x	y	z	λ_B	λ_C	λ_M	$\lambda_{h_{AB}}$
00	588	67.67	43.61	0.91	60.63	0.388	0.088	0.088	110.9	36.1	116.6	37.8
01	689	71.10	43.21	21.71	55.22	0.337	0.159	0.159	123.7	39.1	124.1	36.4
02	697	74.36	43.14	44.30	45.99	0.266	0.273	0.273	134.8	17.9	136.0	35.2
03	708	76.16	42.36	59.08	42.81	0.230	0.335	0.335	143.6	5.56	143.8	34.0
04	716	74.43	41.31	63.78	41.44	0.220	0.355	0.355	139.7	4.35	139.7	32.8
05	726	72.77	39.11	68.41	40.01	0.217	0.380	0.380	138.2	5.12	147.4	33.9
06	737	66.83	34.86	71.99	38.94	0.204	0.410	0.410	132.3	5.94	145.0	33.5
07	750	53.92	25.78	74.65	34.04	0.198	0.486	0.486	109.4	7.04	130.1	32.7
08	762	46.16	21.26	79.94	31.43	0.241	0.538	0.538	100.0	8.27	124.0	32.0
09	460	35.28	19.49	77.94	13.31	0.094	0.773	0.773	7.6	85.5	85.6	27.5
10	462	33.30	13.12	78.97	12.88	0.109	0.762	0.762	0.4	84.4	84.4	27.0
11	464	33.34	13.45	79.69	12.55	0.126	0.748	0.748	7.8	82.7	83.1	26.4
12	468	31.69	18.67	80.47	12.21	0.165	0.713	0.713	5.7	77.6	82.2	25.0
13	470	31.66	19.26	80.47	12.21	0.165	0.713	0.713	5.7	77.6	82.2	25.0
14	472	15.63	26.85	80.89	12.24	0.230	0.644	0.644	-29.3	-66.4	89.1	22.8
15	475	18.33	30.70	80.98	13.24	0.271	0.593	0.593	-19.9	-57.6	98.5	21.5
16	477	22.39	45.01	81.01	10.50	0.306	0.545	0.545	-66.9	-48.3	108.3	20.6
17	477	24.94	50.08	81.01	10.59	0.320	0.519	0.519	-103.4	-43.7	112.3	20.2
18	479	26.94	55.68	81.01	11.31	0.340	0.483	0.483	-131.2	-40.0	116.6	19.8
19	479	29.07	56.38	80.12	15.75	0.340	0.483	0.483	-110.8	-36.1	116.6	19.8
20	484	25.63	56.72	59.32	0.180	0.400	0.416	0.416	-123.7	-10.0	124.1	18.4
21	492	22.37	56.85	36.73	0.192	0.490	0.318	0.318	-134.8	17.9	136.0	17.2
22	511	25.77	67.83	22.95	0.211	0.564	0.224	0.224	-139.3	35.6	143.8	16.5
23	520	30.30	58.68	25.25	0.227	0.597	0.175	0.175	-138.2	51.2	147.4	15.9
24	532	24.56	60.88	12.62	0.250	0.626	0.128	0.128	-138.2	59.4	145.0	15.5
25	535	24.89	65.12	9.04	0.287	0.625	0.086	0.086	-139.2	59.4	145.0	15.5
26	545	43.82	74.21	6.37	0.352	0.596	0.051	0.051	-109.4	70.4	130.1	14.7
27	546	43.95	74.21	6.37	0.352	0.596	0.051	0.051	-18.8	84.6	86.7	13.9
28	564	83.45	90.50	3.08	0.471	0.511	0.017	0.017	7.6	83.8	86.7	9.5
29	565	83.43	88.67	2.06	0.479	0.509	0.011	0.011	-0.4	84.3	84.3	8.0
30	566	83.39	86.54	1.34	0.486	0.505	0.007	0.007	7.8	82.7	83.1	8.4
31	568	83.04	81.12	0.56	0.503	0.493	0.003	0.003	27.0	77.6	82.2	7.0
32	571	80.00	74.78	0.23	0.522	0.476	0.001	0.001	50.5	65.5	85.5	5.5
33	573	81.10	72.78	0.05	0.540	0.460	0.000	0.000	59.3	66.9	86.9	5.0
34	576	74.60	62.93	0.05	0.554	0.445	0.000	0.000	79.9	57.6	98.5	3.5
35	581	74.33	54.29	0.02	0.577	0.421	0.000	0.000	96.9	48.3	108.3	2.6
36	584	71.79	49.91	0.01	0.589	0.414	0.000	0.000	103.4	43.7	112.3	2.2
37	586	71.79	49.91	0.01	0.589	0.414	0.000	0.000	103.4	43.7	112.3	2.2
38	588	67.67	43.61	0.91	0.603	0.388	0.088	0.088	110.9	36.1	116.6	1.8
39	689	71.10	43.21	21.71	0.522	0.337	0.159	0.159	123.7	39.1	124.1	4.0
U-D50 <u>96.74</u> <u>100.00</u> <u>81.03</u> <u>3.48</u> <u>36.00</u> <u>36.00</u> <u>0.00</u> <u>0.00</u> <u>0.00</u> <u>0.00</u> <u>0.00</u> <u>0.00</u>												
$a^*_{D50} = 100 \cdot Y_w [1.0545x - 2.666z + 2.570(y - Y_w)]$ $a^*_{AB} = (a^*_{D50} - Y_w) C_{ABM1} + B_{AB}^{1/2}$												
$b^*_{D50} = 100 \cdot Y_w [0.501(-1.871x + 1.457 - 3.861z)(y - Y_w) - (b^*_{D50} - Y_w) C_{ABM1} + B_{AB}^{1/2}]$												
DE70-78												

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technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmnetik>

R17M tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.												
no.	O	C	tristimulus values and chromaticities			n-chromatic values			n-purities			
			X	Y	Z	x	y	z	λ_B	λ_C	λ_M	λ_{hm}
00	373		50.84	23.58	64.46	0.366	0.169	0.464	113.4	-60.5	128.6	331
01	450		26.22	10.37	70.14	0.245	0.097	0.657	60.4	-77.6	98.3	307
02	463		19.81	9.03	72.37	0.195	0.089	0.715	38.4	-80.5	89.3	295
03	465		19.87	11.18	74.25	0.188	0.106	0.705	30.2	-80.3	85.8	290
04	470B		20.04	16.46	77.00	0.176	0.145	0.678	10.4	-77.5	79.2	277
05	474		20.76	23.15	78.71	0.169	0.188	0.641	-12.2	-71.9	72.9	260
06	477		22.69	31.32	79.75	0.169	0.234	0.596	-35.5	-64.0	73.2	240
07	479		24.27	35.77	80.07	0.173	0.255	0.571	-45.9	-59.7	75.2	232
08	481		28.86	45.22	80.48	0.186	0.292	0.520	-62.8	-49.9	80.3	218
09	482		30.21	48.30	79.14	0.191	0.306	0.501	-68.8	-45.0	82.2	213
10	487C		31.73	48.90	65.44	0.186	0.348	0.465	-86.2	-27.0	90.4	197
11	496		20.48	50.06	44.06	0.178	0.436	0.384	-111.4	1.1	111.4	179
12	500		20.60	52.31	38.55	0.184	0.469	0.345	-118.7	10.4	119.2	174
13	509		19.40	53.50	28.42	0.191	0.528	0.280	-126.9	24.2	129.2	169
19	511		21.83	56.54	28.46	0.204	0.529	0.268	-128.3	27.2	131.2	168
15	518		24.65	60.36	24.01	0.226	0.553	0.220	-130.6	36.4	135.5	164
16	530G		29.99	65.40	16.35	0.268	0.585	0.146	-126.5	50.4	136.1	158
17	538		43.18	76.41	16.37	0.317	0.562	0.120	-113.4	60.5	128.6	151
20	553		67.80	89.62	10.69	0.403	0.533	0.063	-60.4	77.6	98.3	127
19	557		74.22	90.96	8.45	0.427	0.523	0.048	-59.4	80.5	89.2	115
26	558		74.15	88.81	6.58	0.437	0.523	0.038	-30.2	80.3	85.8	110
21	561		73.98	83.52	3.84	0.458	0.517	0.023	-10.4	77.4	78.1	97
22	565		73.26	76.83	2.11	0.481	0.504	0.013	12.3	71.9	72.9	80
23	570Y		71.33	68.67	1.09	0.505	0.486	0.007	35.5	64.0	73.2	60
30	572		69.75	64.22	0.76	0.517	0.476	0.005	45.9	59.5	75.2	52
32	578		65.16	54.77	0.35	0.541	0.455	0.002	62.8	49.9	80.3	38
26	581		63.81	51.69	1.69	0.544	0.441	0.014	68.8	45.0	82.2	33
27	600		67.89	51.09	15.38	0.505	0.380	0.114	86.2	27.0	90.4	17
28	705		73.42	47.68	42.28	0.449	0.291	0.258	118.7	-10.4	119.2	354
29	716		74.62	46.49	52.41	0.440	0.267	0.202	126.9	-24.2	129.2	349
30	716		72.19	43.45	52.37	0.429	0.258	0.311	128.3	-27.2	131.2	348
31	723		69.37	39.63	56.82	0.418	0.238	0.342	130.6	-36.4	135.5	344
32	735		64.03	34.59	64.49	0.392	0.212	0.395	126.5	-50.4	136.2	338
33	743		50.84	23.58	64.46	0.366	0.169	0.464	113.4	-60.5	128.6	331
34	705		26.22	10.37	70.14	0.245	0.097	0.657	60.4	-77.6	98.3	307
U=D50			94.03	100.00	80.83	0.342	0.363	0.363	0.0	0.0	0.0	0
DE740-3N												
$a^*_{nm} = n_a n_b n_c = 1.4 [(5.645x - 2.666 + 2.570z)/y]$ $A_m = (a - a_w) Y$ $C_{ABnm} = [A^2 + B^2 + m^2]^{1/2}$ $b^*_{nm} = n_a n_b n_c = 0.5 [(-1.871x + 1.457 - 3.861z)/y]$ $B_m = (b - b_w) Y$ $H_{ABnm} = \text{atan2}[B_m/A_m]$												

R17M tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.												
no.	O	C	tristimulus values and chromaticities			n-chromatic values			n-purities			
			X	Y	Z	x	y	z	λ_B	λ_C	λ_M	λ_{hm}
00	373		50.84	23.58	64.46	0.366	0.169	0.464	113.4	-60.5	128.6	331
01	450		26.22	10.37	70.14	0.245	0.097	0.657	60.4	-77.6	98.3	307
02	463		19.81	9.03	72.37	0.195	0.089	0.715	38.4	-80.5	89.3	295
03	465		19.87	11.18	74.25	0.188	0.106	0.705	30.2	-80.3	85.8	290
04	470B		20.04	16.46	77.00	0.176	0.145	0.678	10.4	-77.5	79.2	277
05	474		20.76	23.15	78.71	0.169	0.188	0.641	-12.2	-71.9	72.9	260
06	477		22.69	31.32	79.75	0.169	0.234	0.596	-35.5	-64.0	73.2	240
07	479		24.27	35.77	80.07	0.173	0.255	0.571	-45.9	-59.7	75.2	232
08	481		28.86	45.22	80.48	0.186	0.292	0.520	-62.8	-49.9	80.3	218
09	482		30.21	48.30	79.14	0.191	0.306	0.501	-68.8	-45.0	82.2	213
10	487C		31.73	48.90	65.44	0.186	0.348	0.465	-86.2	-27.0	90.4	197
11	496		20.48	50.06	44.06	0.178	0.436	0.384	-111.4	1.1	111.4	179
12	500		20.60	52.31	38.55	0.184	0.469	0.345	-118.7	10.4	119.2	174
13	509		19.40	53.50	28.42	0.191	0.528	0.280	-126.9	24.2	129.2	169
19	511		21.83	56.54	28.46	0.204	0.529	0.268	-128.3	27.2	131.2	168
15	518		24.65	60.36	24.01	0.226	0.553	0.220	-130.6	36.4	135.5	164
16	530G		29.99	65.40	16.35	0.268	0.585	0.146	-126.5	50.4	136.1	158
17	538		43.18	76.41	16.37	0.317	0.562	0.120	-113.4	60.5	128.6	151
20	553		67.80	89.62	10.69	0.403	0.533	0.063	-60.4	77.6	98.3	127
19	557		74.22	90.96	8.45	0.427	0.523	0.048	-59.4	80.5	89.2	115
26	558		74.15	88.81	6.58	0.437	0.523	0.038	-30.2	80.3	85.8	110
21	561		73.98	83.52	3.84	0.458	0.517	0.023	-10.4	77.4	78.1	97
22	565		73.26	76.83	2.11	0.481	0.504	0.013	12.3	71.9	72.9	80
23	570Y		71.33	68.67	1.09	0.505	0.486	0.007	35.5	64.0	73.2	60
30	572		69.75	64.22	0.76	0.517	0.476	0.005	45.9	59.5	75.2	52
32	578		65.16	54.77	0.35	0.541	0.455	0.002	62.8	49.9	80.3	38
26	581		63.81	51.69	1.69	0.544	0.441	0.014	68.8	45.0	82.2	33
27	600		67.89	51.09	15.38	0.505	0.380	0.114	86.2	27.0	90.4	17
28	705		73.42	47.68	42.28	0.449	0.291	0.258	118.7	-10.4	119.2	354
29	716		74.62	46.49	52.41	0.440	0.267	0.202	126.9	-24.2	129.2	349
30	716		72.19	43.45	52.37	0.429	0.258	0.311	128.3	-27.2	131.2	348
31	723		69.37	39.63	56.82	0.418	0.238	0.342	130.6	-36.4	135.5	344
32	735		64.03	34.59	64.49	0.392	0.212	0.395	126.5	-50.4	136.2	338
33	743		50.84	23.58	64.46	0.366	0.169	0.464	113.4	-60.5	128.6	331
34	705		26.22	10.37	70.14	0.245	0.097	0.657	60.4	-77.6	98.3	307
U=D50			100.00	0.081	-0.437	0.445	280	0.0	0.0	0.0	0.0	0
DE740-4N												
$a^*_{nm} = n_a n_b n_c = 1.4 [(5.645x - 2.666 + 2.570z)/y]$ $A_m = (a - a_w) Y$ $C_{ABnm} = [A^2 + B^2 + m^2]^{1/2}$ $b^*_{nm} = n_a n_b n_c = 0.5 [(-1.871x + 1.457 - 3.861z)/y]$ $B_m = (b - b_w) Y$ $H_{ABnm} = \text{atan2}[B_m/A_m]$												

R17M tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by hue angle.												
no.	O	C	tristimulus values and chromaticities						n-chromatic values			
			X	Y	Z	x	y	z	λ_B	λ_C	λ_M	λ_{hm}
00	600	67.89	51.50	15.38	0.505	0.380	0.114	0.416	86.2	-27.0	90.4	377
01	705	73.42	47.68	42.28	0.449	0.291	0.258	0.458	118.7	-10.4	119.2	354
02	714	74.62	46.49	52.41	0.430	0.267	0.302	0.449	126.9	-24.2	129.2	349
03	719	74.19	43.45	53.27	0.428	0.258	0.311	0.449	130.3	-27.7	130.7	345
04	723	73.67	39.63	56.82	0.418	0.238	0.342	0.449	136.0	-36.4	135.5	343
05	735M	64.03	35.59	64.49	0.392	0.212	0.395	0.449	126.5	-50.4	136.2	338
06	738M	50.84	23.58	64.46	0.366	0.169	0.464	0.449	113.4	-60.5	128.6	331
07	740	26.22	10.37	70.14	0.245	0.097	0.657	0.449	60.4	-77.6	98.3	307
08	742	19.81	9.03	72.37	0.195	0.089	0.715	0.449	38.4	-80.5	89.3	295
09	465	19.87	11.18	74.25	0.188	0.106	0.705	0.449	30.2	-80.3	85.8	290
10	470	20.04	16.46	77.00	0.176	0.145	0.678	0.449	10.4	-77.5	79.2	277
11	474	20.76	23.15	78.71	0.169	0.188	0.641	0.449	-12.2	-71.9	72.9	260
12	477B	22.69	31.32	79.75	0.169	0.234	0.596	0.449	-35.5	-64.0	73.2	240
13	479	24.27	35.77	80.07	0.173	0.255	0.571	0.449	-45.9	-59.7	75.2	232
14	481	28.86	45.22	80.48	0.186	0.292	0.520	0.449	-62.8	-49.9	80.3	218
15	482	30.21	48.30	79.14	0.191	0.306	0.501	0.449	-68.8	-45.0	82.2	213
16	487	31.73	48.90	65.44	0.186	0.348	0.465	0.449	-86.2	-27.0	90.4	197
17	496	20.48	50.06	44.06	0.178	0.436	0.384	0.449	-111.4	1.1	111.4	179
18	500	2	52.31	38.55	0.184	0.469	0.245	0.449	118.7	10.4	119.2	354
19	509	19.40	53.80	28.42	0.191	0.528	0.280	0.449	126.9	-24.2	129.2	349
20	511	24.65	56.54	28.46	0.204	0.529	0.266	0.449	130.3	-27.7	130.7	345
21	518	21.83	60.36	24.01	0.226	0.553	0.220	0.449	136.0	-36.4	135.5	343
22	530	23.99	65.40	16.35	0.268	0.585	0.146	0.449	146.5	-50.4	145.1	338
23	536B	43.18	76.61	16.37	0.317	0.562	0.120	0.449	153.4	-60.5	128.6	331
24	553	68.10	89.62	10.69	0.403	0.533	0.063	0.449	160.4	-77.6	98.3	307
25	555	74.22	90.96	8.45	0.427	0.523	0.048	0.449	168.4	-80.5	89.3	295
26	558	74.15	88.81	6.58	0.437	0.523	0.038	0.449	170.3	-80.3	85.8	290
27	562	73.27	83.34	4.81	0.448	0.504	0.031	0.449	172.3	-77.5	79.2	277
28	565	73.26	76.83	2.11	0.441	0.504	0.031	0.449	173.5	-71.9	72.9	260
29	570	71.33	68.67	0.99	0.505	0.486	0.007	0.449	125.6	49.4	73.2	80
30	572	69.15	64.22	0.76	0.517	0.476	0.005	0.449	49.5	59.5	75.2	52
31	578	65.56	54.77	0.35	0.541	0.455	0.002	0.449	62.8	49.9	80.3	38
32	581Y	61.81	51.68	0.19	0.562	0.438	0.001	0.449	86.2	27.0	90.4	377
33	600	67.89	51.50	15.38	0.505	0.380	0.114	0.416	86.2	-27.0	90.4	377
34	705	73.42	47.68	42.28	0.449	0.291	0.258	0.458	118.7	-10.4	119.2	-5
U=D50 94.03 100.00 80.83 0.342 0.363 0.363 0.0 0.0 0.0 0.0 0.0 0.0												
$dP_{\lambda} = p_{\lambda} - p_{\lambda}^* = 1.4[(0.5645x + 2.666z + 2.570z)y] / [C_{AB} - (a - a^*)]$ $bP_{\lambda} = p_{\lambda} - p_{\lambda}^* = 0.5[-1.871x + 1.457z - 3.861z] / [C_{AB} - (b - b^*)]$ $C_{AB} = \frac{[A_{\lambda}^2 - A_{\lambda}^*]^2 + [B_{\lambda}^2 - B_{\lambda}^*]^2}{A_{\lambda}^2 + B_{\lambda}^2}$ $D_{70} = 70$												

see similar files: <http://farbe.li.tu-berlin.de/DE74/DE74L0NA.TXT> /PS
technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbemetrik>

<http://farbe.li.tu-berlin.de/DE74/DE74L0NA.TXT> /PS

N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 6/6

R17Ms tristimulus values, chromatic values, and putities ($n=1.4$, $n_b=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.											
no.	O	C	tristimulus values and chromaticities			nu-chromatic values			nu-putities		
			X	Y	Z	x	y	z	X	Y	Z
00 375	52.09	25.14	67.62	0.359	0.173	0.466	112.5	-62.7	128.8	330	330
01 444	27.16	9.33	67.62	0.260	0.089	0.649	68.7	-76.0	102.4	312	312
02 463	21.19	9.55	72.48	0.205	0.092	0.702	42.3	-80.3	90.8	297	297
03 465	22.27	11.71	74.36	0.198	0.109	0.692	34.1	-80.1	87.1	293	293
04 470	21.43	17.01	77.11	0.185	0.147	0.667	14.3	-77.2	78.6	280	280
05 474	21.09	23.68	78.83	0.177	0.150	0.632	-8.5	-71.7	72.2	263	263
06 476	22.83	27.59	79.42	0.175	0.212	0.611	-20.3	-68.0	70.9	253	253
07 479	25.44	36.25	80.19	0.179	0.255	0.565	-42.5	-59.3	73.0	234	234
08 480	27.41	40.88	80.43	0.184	0.274	0.540	-51.9	-54.6	75.4	226	226
09 481	29.88	45.66	80.60	0.191	0.292	0.516	-59.8	-49.7	77.8	219	219
10 482C	31.14	48.71	79.26	0.195	0.306	0.498	-66.0	-44.8	79.8	214	214
11 488	25.13	49.09	60.78	0.186	0.363	0.450	-90.0	-20.9	92.4	193	193
12 496	20.67	50.20	44.12	0.179	0.436	0.383	-110.6	10.2	110.6	179	179
13 500	20.63	52.39	38.61	0.184	0.469	0.345	-118.3	10.4	118.8	174	174
14 505	20.59	54.04	33.36	0.190	0.500	0.308	-124.1	18.7	125.5	171	171
15 515	20.57	55.82	24.00	0.203	0.557	0.239	-130.5	32.0	134.3	166	166
16 522G	23.24	59.39	19.95	0.226	0.578	0.194	-131.6	40.5	137.7	162	162
17 530	29.26	65.19	16.37	0.264	0.588	0.147	-128.1	50.3	137.6	158	158
18 540	41.69	74.85	13.32	0.321	0.576	0.102	-112.5	62.7	128.8	150	150
19 542	66.62	90.66	13.33	0.390	0.531	0.078	-68.6	76.0	102.4	132	132
20 550	72.58	90.44	8.47	0.423	0.527	0.049	-42.2	80.4	90.8	117	117
21 558	72.51	88.28	6.59	0.433	0.527	0.039	-34.1	80.1	87.1	113	113
22 561	72.35	82.98	3.84	0.454	0.521	0.024	-14.2	77.2	78.5	100	100
23 565Y	71.69	76.31	2.11	0.477	0.508	0.014	8.5	71.6	72.1	83	83
24 567	70.94	72.40	1.53	0.489	0.499	0.005	20.4	67.9	70.9	73	73
25 572	68.33	63.74	0.76	0.514	0.479	0.005	42.5	59.3	73.0	54	54
26 575	66.36	59.11	0.52	0.526	0.469	0.004	51.9	54.6	75.3	46	46
27 578	63.90	54.33	0.35	0.538	0.458	0.002	59.8	49.7	77.8	39	39
28 581	62.64	51.28	1.69	0.541	0.443	0.014	66.0	44.8	79.8	34	34
29 584	68.65	50.90	20.17	0.491	0.364	0.144	90.0	20.9	92.4	13	13
30 701	73.15	49.79	36.82	0.457	0.311	0.230	110.6	-1.2	110.6	359	359
31 705	73.15	47.60	42.34	0.448	0.291	0.259	118.4	-10.4	118.8	354	354
32 710	73.19	45.95	47.59	0.438	0.275	0.285	124.1	-18.7	125.5	351	351
33 720	73.40	44.17	56.94	0.420	0.253	0.326	130.5	-32.0	134.4	346	346
34 727	70.53	40.59	61.00	0.409	0.235	0.344	131.6	-40.5	137.7	342	342
35 735M	64.51	34.79	64.58	0.393	0.212	0.394	128.1	-50.3	137.7	338	338
36 745	52.09	25.14	67.62	0.359	0.173	0.466	112.5	-62.7	128.8	330	330
37 809	27.16	9.33	67.62	0.260	0.089	0.649	68.7	-76.0	102.4	312	312
U=D50	93.78	100.00	80.94	0.341	0.363	0.363	0.0	0.0	0.0	0	0

$$\begin{aligned} a^* &= P_{nm} - n_b P_n = 1.4[(5.645x - 2.666 + 2.570z)/y] & A_{nm} &= (a^* - a^*)_Y & C_{ABnm} &= [A^2 + B^2]^{1/2} \\ b^* &= P_{nm} - n_b P_n = 0.5[(-1.871x + 1.457 - 3.861z)/y] & B_{nm} &= (b^* - b^*)_Y & h_{ABnm} &= \text{atan2}(B_{nm}/A_{nm}) \end{aligned}$$

DE740-3N

R17Ms tristimulus values, chromatic values, and putities ($n=1.4$, $n_b=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by hue angle.											
no.	O	C	tristimulus values and chromaticities			nu-chromatic values			nu-putities		
			X	Y	Z	x	y	z	X	Y	Z
00 614	68.65	50.90	20.17	0.491	0.364	0.144	90.0	20.9	92.4	13	13
01 705	73.15	49.79	36.82	0.457	0.311	0.230	110.6	-1.2	110.6	359	359
02 701	73.15	47.60	42.34	0.448	0.291	0.259	118.4	-10.4	118.8	354	354
03 710	73.19	45.95	47.59	0.438	0.275	0.285	124.1	-18.7	125.5	351	351
04 720	73.40	44.17	56.94	0.420	0.253	0.326	130.5	-32.0	134.4	346	346
05 727	70.53	40.59	61.00	0.409	0.235	0.344	131.6	-40.5	137.7	342	342
06 735	64.51	34.79	64.58	0.393	0.212	0.394	128.1	-50.3	137.7	338	338
07 375	52.09	25.14	67.62	0.359	0.173	0.466	112.5	-62.7	128.8	330	330
08 444	27.16	9.33	67.62	0.260	0.089	0.649	68.7	-76.0	102.4	312	312
09 463	21.19	9.55	72.48	0.205	0.092	0.702	42.3	-80.3	90.8	297	297
10 465	22.27	11.71	74.36	0.198	0.109	0.692	34.1	-80.1	87.1	293	293
11 470	21.43	17.01	77.11	0.185	0.147	0.667	14.3	-77.2	78.6	280	280
12 474B	22.09	23.68	78.83	0.177	0.150	0.632	-8.5	-71.7	72.2	263	263
13 476	22.83	27.59	79.42	0.175	0.212	0.611	-20.3	-68.0	70.9	253	253
14 479	25.44	36.25	80.19	0.179	0.255	0.565	-42.5	-59.3	73.0	234	234
15 480	27.41	40.88	80.43	0.184	0.274	0.540	-51.9	-54.6	75.4	226	226
16 481	29.88	45.66	80.60	0.191	0.292	0.516	-59.8	-49.7	77.8	219	219
17 482	31.14	48.71	79.26	0.195	0.306	0.498	-66.0	-44.8	79.8	214	214
18 488C	25.13	49.09	60.78	0.186	0.363	0.450	-90.0	-20.9	92.4	193	193
19 496	20.67	50.20	44.12	0.179	0.436	0.383	-110.6	10.2	110.6	179	179
20 500	20.63	52.39	38.61	0.184	0.469	0.345	-118.3	10.4	118.8	174	174
21 505	20.59	54.04	33.36	0.190	0.500	0.308	-124.1	18.7	125.5	171	171
22 515	20.57	55.82	24.00	0.203	0.557	0.239	-130.5	32.0	134.3	166	166
23 522G	23.24	59.39	19.95	0.226	0.578	0.194	-131.6	40.5	137.7	162	162
24 530	29.26	65.19	16.37	0.264	0.588	0.147	-128.1	50.3	137.6	158	158
25 540	41.69	74.85	13.32	0.321	0.576	0.102	-112.5	62.7	128.8	150	150
26 552	66.62	90.66	13.33	0.390	0.531	0.078	-68.6	76.0	102.4	132	132
27 557	72.58	90.44	8.47	0.423	0.527	0.049	-42.2	80.4	90.8	117	117
28 558	72.51	88.28	6.59	0.433	0.527	0.039	-34.1	80.1	87.1	113	113
29 561	72.35	82.98	3.84	0.454	0.521	0.024	-14.2	77.2	78.5	100	100
30 565	71.69	76.31	2.11	0.477	0.508	0.014	8.5	71.6	72.1	83	83
31 567	70.94	72.40	1.53	0.489	0.499	0.005	20.4	67.9	70.9	73	73
32 572Y	68.33	63.74	0.76	0.514	0.479	0.005	42.5	59.3	73.0	54	54
33 575	66.36	59.11	0.52	0.526	0.469	0.004	51.9	54.6	75.3	46	46
34 578	63.90	54.33	0.35	0.538	0.458	0.002	59.8	49.7	77.8	39	39
35 581	62.64	51.28	1.69	0.541	0.443	0.014	66.0	44.8	79.8	34	34
36 614R	68.65	50.90	20.17	0.491	0.364	0.144	90.0	20.9	92.4	13	13
37 701	73.15	49.79	36.82	0.457	0.311	0.230	110.6	-1.2	110.6	0	0
U=D50	93.78	100.00	80.94	0.341	0.363	0.363	0.0	0.0	0.0	0	0

$$\begin{aligned} a^* &= P_{nm} - n_b P_n = 1.4[(5.645x - 2.666 + 2.570z)/y] & A_{nm} &= (a^* - a^*)_Y & C_{ABnm} &= [A^2 + B^2]^{1/2} \\ b^* &= P_{nm} - n_b P_n = 0.5[(-1.871x + 1.457 - 3.861z)/y] & B_{nm} &= (b^* - b^*)_Y & h_{ABnm} &= \text{atan2}(B_{nm}/A_{nm}) \end{aligned}$$

DE740-7R_pchart=4_xcolor=5(R17Ms)

R17Ms tristimulus values, chromatic values, and putities ($n=1.4$, $n_b=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.											
no.	O	C	n-purities				nu-purities				
λ_n			P_{nm}	P_{nm}	P_{nm}	h_{nm}	P_{nm}	P_{nm}	P_{nm}	h_{nm}	
00 375	25.14	4.54	-2.93	5.41	327	4.47	-2.49	5.12	330		
01 444	9.33	7.43	-8.58	11.36	310	7.36	-8.14	10.98	312		
02 463	9.55	4.85	-8.85	9.93	296	4.43	-8.41	9.51	297		
03 465	11.71	2.99	-7.28	7.87	292	2.92	-6.84	7.44	293		
04 470	17.01	0.91	-4.98	5.06	280	0.84	-4.54	4.62	280		
05 474	23.68	-0.28	-3.46	3.47	265	-0.35	-3.02	3.04	263		
06 476	27.59	-0.66	-2.90	2.97	257	-0.73	-2.46	2.57	253		
07 479	36.25	-1.10	-2.07	2.35	242	-1.17	-1.63	2.01	234		
08 480	40.88	-1.20	-1.77	2.14	235	-1.27	-1.33	1.84	226		
09 481	45.66	-1.24	-1.52	1.96	230	-1.31	-1.09	1.70	219		
10 482C	48.71	-1.28	-1.36	1.87	226	-1.35	-0.92	1.63	214		
11 488	49.09	-1.76	-0.86	1.96	206	-1.83	-0.42	1.88	193		
12 496	50.20	-2.13	-0.41	2.17	190	-2.20	-0.25	2.20	179		
13 500	52.39	-2.18	-0.23	2.20	186	-2.25	-0.19	2.26	174		
14 504	54.04	-2.22	-0.10	2.22	183	-2.32	-0.14	2.34	171		
15 515	55.82	-2.26	-0.13	2.27	176	-2.33	-0.57	2.40	166		
16 522C	59.39	-2.14	0.24	2.15	173	-2.21	0.68	2.31	162		
17 530	65.19	-1.89	0.33	1.92	170	-1.96	0.77	2.12	158		
18 540	74.85	-1.43	0.39	1.48	164	-1.50	0.83	1.72	150		
19 550	82.56	-1.04	0.39	1.48	164	-1.50	0.83	1.72	150		
20 557	88.44	-0.39	0.44	0.60	131	-0.46	0.88	1.00	117		
21 558	88.28	-0.31	0.46	0.56	124	-0.38	0.90	0.98	113		
22 561	82.98	-0.10	0.49	0.50	101	-0.17	0.93	0.94	100		
23 565	76.31	0.18	0.50	0.53	69	-0.11	0.93	0.94	83		
24 567	72.40	0.27	0.53	0.53	54	-0.08	0.93	0.93	83		
25 572	66.64	0.73	0.49	0.88	33	0.66	0.93	1.14	54		
26 575	59.11	0.94	0.48	1.06	27	0.87	0.92	1.27	46		
27 578	54.23	1.17	0.47	1.26	22	1.10	0.91	1.43	39		
28 581	51.18	1.35	0.43	1.42	17	1.28	0.87	1.55	34		
29 584	50.90	1.88	0.42	1.84	359	1.76	0.41	1.81	34		
30 591	49.29	2.09	-0.46	2.48	348	-0.22	0.92	2.42	359		
31 605	47.60	2.55	-0.65	2.65	345	-2.48	-0.22	2.49	359		
32 710	45.95	2.77	-0.84	2.89	343	-2.70	-0.40	2.73	351		
33 720	44.17	3.02	-1.16	3.24	338	-2.95	-0.72	3.04	346		
34 727	40.59	3.31	-1.43	3.61	336	-3.24	-0.99	3.39	342		
35 735	38.38	3.48	-1.48	3.88	334	-3.48	-1.44	3.88	342		
36 745	25.14	4.54	-2.93	5.41	327	-4.47	-2.49	5.12	330		
37 809	9.33	7.43	-8.58	11.36	310	7.36	-8.14	10.98	312		
U=D=50	100.00	0.00	-0.438	0.444	279	0.0	0.0	0.0	0		