

HEXIS ECOTAC 3000+

FOR THE ATTENTION OF USERS

In the tables below, the colors of the HEXIS ECOTAC 3000+ range are given in different color spaces.

Definitions

CIE L*a*b* Space

The CIE L*a*b* space is a colorimetric system based on the visual perception of colors, optimized to measure color shift.

L*a*b* values are useful to create a spot colors library in RIP software when you wish to reproduce them. This method should be preferred in order to make the most of your printer's range printable colors.

The Coated FOGRA39 standard

CMYK values correspond to the quantities of primary inks needed to obtain, according to the Coated FOGRA39 standard, the closest color on an offset press. Since this colorimetric space has a limited range of colors, many ECOTAC 3000+ references cannot be reproduced within this system.

Colorimetric spaces sRGB and ADOBE RGB (1998)

RGB values are the amount of red, green and blue light required to reproduce the colors on a calibrated screen and normalized to the sRGB or ADOBE RGB (1998) standard. The sRGB data is dedicated to the display on the internet..

ADOBE RGB (1998) comes from the world of professional photography and the need for a dedicated RGB space to the printing business..

The values in this document are indicative and not contractual

Reproducing a color on a printing system requires that it be calibrated and accurately characterized through an ICC profile suitable for that system.

Hexis offers, a custom profile creation service or free, ICC profiles download that match your machine-media-RIP configuration, and thus ensures a quality colorimetric rendering. Each configuration requires a different ICC profile. These tools are available on the Hexis website at : <http://www.hexis-graphics.com/en/iccs/index>.

It is the user's responsibility to visually compare the printed color with the reference of the color chart in order to assess the differences in color and their acceptability. Not all colors of the HEXIS ECOTAC 3000+ color chart can be printed on a large-format printer. Only those that belong to the printer gamut can be printed.

Hexis takes no responsibility for the direct or indirect consequences of using these tables.

Color Characterization Table for ECOTAC E3000+

ECOTAC	Color space												
	Lab D50 2°			CoatedFOGRA39				sRGB			Adobe RGB (1998)		
Reference	L	a	b	C	M	Y	K	R	G	B	R	G	B
E3116B	85,96	4,48	87,59	0	13	96	0	253	206	0	241	205	0
E3110B	83,47	13,73	85,56	0	23	94	0	255	193	0	244	193	0
E3123B	79,51	23,42	92,85	0	33	100	0	255	175	0	242	175	0
E3151B	61,49	51,66	75,51	0	68	100	0	242	101	0	213	101	0
E3179B	53,68	66,78	62,97	0	87	100	0	234	54	0	202	56	11
E3485B	47,9	69,39	59,21	0	99	100	0	219	22	1	188	27	5
E3186B	40,72	66,73	48,05	11	100	100	5	193	0	13	165	0	20
E3505B	23,29	42,62	15,19	31	100	73	49	112	8	30	96	15	34
E3220B	44,51	66,08	9,29	11	100	35	3	201	20	80	172	27	80
E3527B	28,09	32,1	-42,42	83	98	0	0	95	44	116	85	48	114
E3281B	20,34	3,57	-29,08	100	87	38	28	41	48	80	47	52	80
E3280B	18,88	12,91	-48,33	100	87	33	20	31	41	103	39	45	101
E3ELEB	26,52	28,4	-70,8	99	81	0	0	55	48	154	56	51	150
E3286B	30,19	8,43	-55,02	100	74	2	0	42	68	138	54	70	136
E3294B	26,24	-1,88	-46,75	100	74	25	11	1	64	117	37	66	115
E3293B	26,87	-1	-53,6	100	72	20	7	0	66	128	30	68	126
E3300B	36,83	-11,11	-52,89	100	55	5	1	0	93	151	42	93	148
E3307B	40,17	-24,72	-44,32	100	41	14	4	0	107	146	36	106	144
E3PROB	43,59	-23,92	-47,23	100	36	7	1	0	114	158	44	114	155
E3298B	51,77	-26,81	-42,97	93	20	6	0	0	136	171	68	135	169
E3297B	68,06	-17,09	-28,9	60	9	5	0	120	173	188	137	172	187
E3320B	49,18	-48,02	-21,64	100	10	40	2	0	135	131	44	135	131
E3376B	65,78	-43,53	63,96	64	0	100	0	103	177	0	129	176	24
E3361B	60,12	-44,46	41,03	73	0	96	0	76	162	47	110	161	61
E3362B	50,23	-53,24	34,57	90	11	100	2	0	139	39	73	138	51
E3340B	42,4	-55,88	12,03	100	19	86	8	0	119	64	42	119	69
E3348B	38,32	-56,12	14,97	100	23	96	15	0	109	51	32	109	57
E3336B	24,3	-46,61	6,22	100	35	93	51	0	72	38	0	73	44
E3357B	22,18	-29,25	11,33	100	46	96	59	0	63	28	34	65	35

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ECOTAC	Color space												
	Lab D50 2°			CoatedFOGRA39				sRGB			Adobe RGB (1998)		
Reference	L	a	b	C	M	Y	K	R	G	B	R	G	B
E3476B	24,52	11,37	16,54	44	71	89	66	81	50	27	75	54	34
E3889B	2,23	-0,29	-1,36	91	79	62	98	10	11	11	17	17	17
E3444B	46,03	-2,98	2,1	56	40	49	28	111	109	89	110	109	91
E3430B	59,31	-0,07	1,9	41	33	37	14	151	140	119	147	139	119
E3877B	51,07	-0,75	-1,28	51	39	40	21	130	123	109	126	122	108
E3871B	51,05	4,33	31,88	35	41	80	26	146	118	53	137	117	59
E3899B	90,81	-0,85	3,28	7	4	12	0	235	220	186	230	219	187
E3829B	93,28	-1,57	-3,92	6	0	1	0	242	232	209	240	233	210
E3116M	85,98	4,4	86,93	0	13	96	0	252	206	0	240	205	0
E3110M	83,26	13,81	83,84	0	23	93	0	255	192	0	242	192	13
E3123M	78,76	23,23	92,45	0	34	100	0	255	173	0	239	172	0
E3151M	61,35	50,38	74,17	0	67	100	0	241	102	0	212	102	0
E3179M	54,01	65,43	58,81	0	86	97	0	234	60	18	202	61	27
E3485M	47,93	68,42	59,13	0	98	100	0	218	27	3	187	31	10
E3186M	41,6	64,92	43,46	12	100	100	4	194	3	25	166	4	29
E3505M	23,84	42	13,62	31	100	70	49	113	13	33	97	20	37
E3220M	44,6	65,2	8,17	11	100	34	3	200	25	82	172	30	82
E3527M	29,29	30,87	-41,34	81	95	0	0	97	48	117	88	52	115
E3281M	20,79	2,86	-28,98	100	86	38	28	41	50	81	48	53	81
E3280M	20,09	12,22	-47,02	100	86	32	17	37	45	104	43	48	102
E3ELEM	27,27	27,06	-69,49	99	80	0	0	57	51	153	58	54	150
E3286M	30,05	8,12	-54,94	100	74	3	0	42	69	139	54	70	136
E3294M	26,42	-1,8	-46,94	100	74	24	10	3	65	118	39	67	116
E3293M	26,97	-1,39	-51,87	100	72	21	8	0	67	127	33	68	124
E3300M	37,34	-11,18	-51,26	100	54	5	0	0	95	150	45	95	147
E3PROM	43,9	-23,61	-46,42	100	36	8	1	0	115	158	47	115	156
E3298M	52,09	-25,74	-41,41	91	21	7	0	0	136	170	73	136	167
E3297M	68,13	-17,89	-28,6	60	9	6	0	119	174	188	137	173	187
E3320M	49,53	-47,47	-21,24	100	10	40	2	0	137	132	47	136	131

Color Characterization Table for ECOTAC E3000+

ECOTAC	Color space												
	Lab D50 2°			CoatedFOGRA39				sRGB			Adobe RGB (1998)		
Reference	L	a	b	C	M	Y	K	R	G	B	R	G	B
E3376M	65,82	-43,01	62,53	64	0	100	0	104	177	0	130	176	29
E3361M	60,52	-43,14	39,46	72	0	93	0	81	163	52	112	162	64
E3362M	50,14	-53,14	33,57	90	11	100	1	0	139	41	73	138	53
E3340M	43,4	-52,23	11,26	100	19	84	7	0	121	67	49	120	72
E3348M	39,63	-57,27	15,73	100	22	96	13	0	113	53	34	112	59
E3336M	24,73	-42,84	5,13	100	35	91	51	0	73	42	16	74	46
E3357M	23,25	-28,58	8,84	100	44	96	56	0	66	34	36	67	40
E3476M	26,47	11,1	13,67	42	68	79	64	85	55	35	79	58	41
E3889M	17,63	-0,19	-0,92	76	65	59	78	46	43	38	48	46	42
E3444M	46,69	-2,9	2,07	55	40	48	27	113	111	91	112	110	92
E3430M	59,69	0,26	1,69	40	33	36	13	153	141	120	149	140	121
E3829M	93,43	-1,79	-3,95	6	0	1	0	243	234	210	240	233	210
VCRE3829M	94,49	-0,02	-1,84	1	1	1	0	251	236	209	247	236	210
VCRE3186M	39,7	66,11	46,19	13	100	100	6	191	0	15	162	0	21
VCRE3505M	24,13	40,47	11,77	31	100	67	50	113	16	35	97	24	39
VCRE3340M	42,03	-54,74	12,12	100	20	87	9	0	119	63	43	118	69
VCRE3280M	20,15	12,42	-47,85	100	86	31	16	36	45	106	42	48	104
VCRE3444M	45,67	-2,87	1,79	56	40	48	28	111	109	90	110	108	91
VCRE3889M	20,4	-0,15	-0,9	73	62	58	72	51	48	42	54	52	47

Exchange Table between ECOTAC E3000+ and PANTONE/RAL color charts

The following colorimetric correlation, between the references ECOTAC E3000+ and PANTONE/RAL, as well as the color shift expressed in ΔE 2000, are given only as an informative guide to facilitate the search and have no contractual value (colors may be altered by the reproduction quality of documents or screens).

It's the user's responsibility to visually compare the physical color charts in order to assess the differences in color and their acceptability.

Hexis takes no responsibility for the direct or indirect consequences when using these tables.

Delta E is measured on a scale from 0 to 100, where 0 is less color difference, and 100 indicates complete distortion.

How to interpret the data of a DeltaE2000 ?

(Interpretation remains individual)

0 to 1	A normally invisible difference
Above 1 up to 2	Very small difference, only evident for a trained eye
Above 2 up to 3.5	Average difference, also evident for all
Above 3.5 up to 6	An obvious difference
Greater than 6	A very obvious difference

ECOTAC3000+	PANTONE	ΔE 2000	RALK7	ΔE 2000
E3116B	Pantone 109 C	2	Ral 1028	1,3
E3110B	Pantone 123 C	1,6	Ral 1028	3,5
E3123B	Pantone 1235 C	2,8	Ral 1004	1,1
E3151B	Pantone 158 C	3,4	Ral 2008	2,0
E3179B	Pantone 2028 C	1,7	Ral 2001	1,0
E3485B	Pantone 7597 C	7,2	Ral 2002	3,5
E3186B	Pantone 2035 C	6	Ral 3020	2,9
E3505B	Pantone 188 C	4,3	Ral 3005	2,3
E3220B	Pantone 214 C	2,7	Ral 4010	3,0
E3527B	Pantone 268 C	1,5	Ral 4005	13,2
E3281B	Pantone 534 C	1,6	Ral 5013	2,5
E3280B	Pantone 280 C	3,4	Ral 5002	1,3
E3ELEB	Pantone 2126 C	3,4	Ral 5000	9,9
E3286B	Pantone 7687 C	3,8	Ral 5002	2,4
E3294B	Pantone 2154 C	1,6	Ral 5005	0,9
E3293B	Pantone 2945 C	3,3	Ral 5002	2,6
E3300B	Pantone 300 C	1,9	Ral 5005	1,0

Exchange Table between ECOTAC E3000+ and PANTONE/RAL color charts

ECOTAC3000+	PANTONE	ΔE 2000	RALK7	ΔE 2000
E3307B	Pantone 641 C	3,3	Ral 5019	5,9
E3PROB	Pantone 7461 C	4	Ral 5019	4,5
E3298B	Pantone 2183 C	4,5	Ral 5012	1,8
E3297B	Pantone 2190 C	2,3	Ral 5024	10,9
E3320B	Pantone 321 C	2,6	Ral 6034	4,0
E3376B	Pantone 368 C	3,4	Ral 6018	7,8
E3361B	Pantone 7738 C	0,9	Ral 6018	2,8
E3362B	Pantone 2258 C	3,4	Ral 6018	6,8
E3340B	Pantone 7726 C	1,3	Ral 6024	5,7
E3348B	Pantone 7727 C	2,9	Ral 6016	1,8
E3336B	Pantone 3298 C	10,4	Ral 6026	12,4
E3357B	Pantone 554 C	9,3	Ral 6035	3,6
E3476B	Pantone 2322 C	1,4	Ral 8014	3,2
E3889B	Pantone 426 C	8,5	Ral 9004	0,8
E3444B	Pantone 424 C	4,9	Ral 7005	0,5
E3430B	Pantone 7539 C	2,2	Ral 7001	4,1
E3877B	Pantone 424 C	3,3	Ral 7046	4,2
E3871B	Pantone 4495 C	3,2	Ral 1027	1,4
E3899B	Pantone 413 C	10,4	Ral 9003	2,1
E3829B	Pantone 642 C	4,7	Ral 9003	9,3
E3116M	Pantone 109 C	2,2	Ral 1023	5,2
E3110M	Pantone 123 C	1,3	Ral 1028	4,3
E3123M	Pantone 2010 C	1,8	Ral 1004	1,6
E3151M	Pantone 158 C	3,2	Ral 2008	2,1
E3179M	Pantone 7597 C	3,9	Ral 2001	3,0
E3485M	Pantone 485 C	2,7	Ral 2002	3,7
E3186M	Pantone 7620 C	2,8	Ral 3020	3,3
E3505M	Pantone 188 C	4,1	Ral 3005	1,5
E3220M	Pantone 214 C	2,6	Ral 4010	3,0
E3527M	Pantone 268 C	2	Ral 4005	11,7
E3281M	Pantone 534 C	1	Ral 5013	2,5

Exchange Table between ECOTAC E3000+ and PANTONE/RAL color charts

ECOTAC3000+	PANTONE	ΔE 2000	RALK7	ΔE 2000
E3280M	Pantone 280 C	4	Ral 5002	1,2
E3ELEM	Pantone 2126 C	3	Ral 5000	4,9
E3286M	Pantone 7687 C	3,9	Ral 5002	1,7
E3294M	Pantone 2154 C	1,6	Ral 5005	1,0
E3293M	Pantone 2945 C	3,3	Ral 5002	5,6
E3300M	Pantone 7462 C	5	Ral 5005	4,3
E3PROM	Pantone 7461 C	3,7	Ral 5019	3,9
E3298M	Pantone 2183 C	3,9	Ral 5012	1,5
E3297M	Pantone 298 C	2,9	Ral 5024	10,0
E3320M	Pantone 321 C	2,9	Ral 6034	5,0
E3376M	Pantone 368 C	3,4	Ral 6018	7,0
E3361M	Pantone 7738 C	1,2	Ral 6018	2,9
E3362M	Pantone 2258 C	3,6	Ral 6018	7,4
E3340M	Pantone 341 C	1,2	Ral 6024	1,8
E3348M	Pantone 7726 C	3,2	Ral 6016	5,1
E3336M	Pantone 3298 C	10	Ral 6035	4,7
E3357M	Pantone 7484 C	6,6	Ral 6026	6,3
E3476M	Pantone 476 C	0,9	Ral 8016	2,3
E3889M	Pantone 426 C	2,3	Ral 7021	2,3
E3444M	Pantone 424 C	4,6	Ral 7005	0,4
E3430M	Pantone 2332 C	2,4	Ral 7042	3,7
E3829M	Pantone 642 C	4,7	Ral 9003	9,4
VCRE3829M	Pantone 649 C	4,7	Ral 9003	6,8
VCRE3186M	Pantone 7627 C	4,3	Ral 3000	2,4
VCRE3505M	Pantone 188 C	4,3	Ral 3005	1,8
VCRE3340M	Pantone 3415 C	1,1	Ral 6032	7,0
VCRE3280M	Pantone 2147 C	2,2	Ral 5002	1,21
VCRE3444M	Pantone 5615 C	9	Ral 7005	0,6
VCRE3889M	Pantone 426 C	3,7	Ral 7021	2,4