

COLOUR CORRESPONDENCE

HEXIS SMARTAC KG8000 range

Intended for users :

In the table below, the colours of the HEXIS SMARTAC KG8000 range are listed in various colour spaces.

Definitions :

- The CIE L*a*b* colour space

The L*a*b* space is a colorimetric system based on the visual perception of colours, optimised to measure colour differences. The L*a*b* values are useful to create a spot colour library in the RIP when you want to reproduce them. Using this method is recommended to take most advantage of the printable colour range of your printer.

- The CoatedFOGRA39 standard

The CMYK values match the primary ink quantities required to obtain the closest matching colour on an offset press, according to the CoatedFOGRA39 standard. As this colorimetric space features a limited colour range, many SMARTAC KG8000 references are not reproducible in this system.

- The colorimetric spaces sRGB and ADOBE RGB (1998)

The RGB values match the level of red, green and blue light necessary for the reproduction of colours on a calibrated and standardised screen according to the sRGB or ADOBE RGB (1998) standard. The sRGB data are dedicated to the display on the internet.

The ADOBE RGB (1998) standard originates from the photography industry and the need for a RGB space dedicated to printing.

All values in this document are provided for information purposes and are non-binding by any means.

Reproducing a colour on a printing system requires to be accurately calibrated and characterised by an ICC profile adapted to this system.

The HEXIS ICC profiles, being available for free download, match your machine-media-RIP configuration and thus ensure a quality colour rendering. Each configuration requires the use of a different ICC profile.

These tools are available at the following address: <http://www.hexis-graphics.com/fr/iccs/index>

It is the responsibility of the user to check the printed colour against the reference of the colour chart in order to assess the differences in colours and their acceptability. All colours of the HEXIS SMARTAC KG8000 colour chart cannot be printed on a large format plotter. Only those in the printer gamut can be printed.

HEXIS decline all liability for direct or indirect consequences of the use of these tables.

SMARTAC KG8000 colour chart characterisation table

SMARTAC KG8000	Espace Colorimétrique												
	Lab D50 2°			CoatedFOGRA39				sRGB			Adobe RGB (1998)		
Référence	L	a	b	C	M	J	K	R	G	B	R	G	B
KG8002B	96,35	-0,18	-0,64	0	0	2	0	255	243	213	255	243	214
KG8002M	95,66	-0,7	2,05	0	0	5	0	255	240	205	252	240	207
KG8004B	91,75	-0,59	4,47	5	4	12	0	246	229	192	240	228	191
KG8039B	43,44	0,16	4,06	52	43	51	34	111	101	82	108	101	83
KG80CIB	52,87	64,05	67,78	0	86	100	0	232	57	0	201	60	0
KG8106B	69,62	16,32	62,1	9	38	92	1	222	156	23	205	155	45
KG8108B	90,8	-6,64	87,92	2	0	91	0	253	228	0	247	228	22
KG8109B	85,57	6,68	99,83	0	14	100	0	255	206	0	247	205	0
KG8115B	83,93	11,72	88,48	0	20	97	0	255	198	0	246	197	0
KG8123B	81,28	16,53	106,9	0	26	100	0	255	187	0	244	186	0
KG8136B	78,55	20,5	98,46	0	31	100	0	255	177	0	239	175	0
KG8137B	72,81	30,87	84,3	0	44	100	0	254	152	0	231	152	0
KG8164B	61,84	57,01	79,38	0	70	100	0	254	96	0	222	95	0
KG8165B	59,13	53,72	76,45	0	71	100	0	240	93	0	211	93	0
KG8166B	54,95	57,66	68,21	0	79	100	0	231	75	0	202	76	0
KG8186B	40,18	64,6	45,13	13	100	100	6	191	0	16	163	0	24
KG8187B	43,5	70,54	52,03	5	100	100	1	209	0	12	178	0	17
KG8200B	35,34	64,63	49,04	16	100	100	14	175	0	1	149	0	0
KG8201B	30,11	48,13	28,85	26	100	100	31	140	18	24	120	22	28
KG8220B	45,2	65,8	11,3	9	100	38	2	205	24	79	175	29	79
KG8221B	39,7	58,99	-0,84	22	100	25	9	178	26	85	152	30	84
KG8280B	19,77	11,32	-46,74	100	86	32	18	33	44	103	41	47	102
KG8293B	32,9	-6,03	-55,26	100	62	8	1	0	83	146	36	83	144
KG8297B	62,47	-19,08	-34,92	70	13	3	0	92	161	186	116	160	184
KG8299B	52,29	-23,21	-46,4	91	22	0	0	0	137	179	72	136	177
KG8300B	27,13	-0,43	-53,12	100	72	19	6	0	66	130	33	68	127
KG8302B	17,52	-18,09	2,5	100	51	82	73	14	50	32	34	53	38
KG8322B	42	-44,4	-19,27	100	21	44	11	0	116	112	33	116	112
KG8336B	24,62	-43,55	5,09	100	35	91	51	0	72	40	9	74	46
KG8342B	30,4	-40	6,33	100	33	87	37	0	85	49	34	86	54
KG8348B	39,64	-61,06	13,33	100	20	92	12	0	114	56	21	114	62
KG8354B	54,08	-66,91	36,07	94	0	100	0	0	154	43	64	153	57
KG8368B	55,8	-44,58	37,81	79	6	100	0	61	152	45	99	151	59
KG8369B	59,23	-58,43	51,79	80	0	100	0	0	165	0	93	164	38
KG8370B	54,59	-31,3	49,93	68	18	100	4	96	143	0	112	142	34
KG8375B	73,72	-47,36	59,16	58	0	95	0	116	202	29	146	201	56
KG8428B	79,55	-0,56	-0,87	22	15	18	1	208	196	172	203	195	172
KG8430B	53,82	-3,02	-2,65	51	35	37	16	130	129	114	130	129	115
KG8433B	25,58	-0,63	-0,03	67	57	56	62	64	60	51	65	62	54
KG8445B	40,16	-2,74	-1,39	61	45	47	35	96	95	83	96	96	85
KG8446B	30,12	-2,16	-1,51	68	53	52	52	72	71	62	74	73	65

SMARTAC KG8000	Espace Colorimétrique												
	Lab D50 2°			CoatedFOGRA39				sRGB			Adobe RGB (1998)		
Référence	L	a	b	C	M	J	K	R	G	B	R	G	B
KG8468B	84,96	2,77	20,95	6	13	36	0	238	208	147	229	207	149
KG8475B	20	9,63	13,18	50	72	82	75	68	43	24	64	46	31
KG8476B	18,84	10,56	14,34	51	73	82	76	66	39	19	62	44	28
KG8485B	45,38	65,36	55,48	5	99	100	1	209	24	2	179	29	8
KG8503B	26,08	49,48	26,75	25	100	96	40	129	0	20	110	0	26
KG8505B	23,81	41,83	14,19	31	100	71	49	114	6	30	97	14	35
KG8531B	12,75	-1,01	-18,77	100	84	46	66	24	34	51	33	39	54
KG8532B	9,71	-0,75	-17,2	100	82	49	81	18	27	43	28	33	46
KG8795B	48,17	68,95	64,05	0	97	100	0	222	24	0	191	29	0
KG8870B	52,18	7,04	21,57	32	42	63	24	152	120	74	142	118	77
KG8871B	51,1	2,58	27,42	37	39	74	25	143	119	61	133	116	65
KG8875B	36,56	0,3	3,83	56	48	54	44	95	86	69	93	87	72
KG8877B	62,52	-0,85	-1,45	40	30	31	9	159	151	133	156	150	134
KG8878B	35,6	-1,6	-0,15	61	48	50	42	89	86	74	87	85	75
KG8879B	49,8	-1,04	0,2	51	39	41	22	123	117	100	121	117	102
KG8889B	3,47	0,17	-0,18	91	79	62	98	17	14	12	24	23	21
KG8890B	3,04	0,2	-0,1	91	79	62	98	15	13	11	21	20	17
KG8890M	12,49	0,11	-0,07	79	70	62	89	37	34	28	39	37	32
KG8899B	90,11	-0,42	4,69	7	5	14	0	240	223	186	236	223	188
KG8948B	45,05	0,32	5,37	50	42	51	31	116	105	83	114	106	86
KG8961B	17,98	1,92	-24,08	100	87	42	41	35	43	69	43	48	70
KG8963B	36,19	-4,92	-22,65	85	58	30	15	68	87	106	77	89	105
KG8964B	19,59	0,04	-33,85	100	83	38	31	22	48	86	39	53	85
KG8965B	14,04	-2,06	-17,84	100	84	47	63	25	37	52	35	42	55
KG8990B	60,94	-0,79	-1,25	41	31	32	10	153	145	128	151	145	129
KG8BAVB	95,66	-0,85	1,77	0	0	4	0	255	240	207	252	241	208
KG8BHOB	54,1	-24,76	-44,75	89	18	1	0	0	142	181	77	141	178
KG8BMEB	14,63	14,55	-39,4	100	91	35	36	35	29	82	38	35	81
KG8GFUB	60,68	-0,88	-1,5	42	31	32	10	155	147	130	151	146	130
KG8GPLB	34,61	-3,57	-3,67	68	49	48	41	79	83	75	82	84	77
KG8GTEB	53,66	-3,94	0,59	51	34	41	17	130	129	109	129	129	110
KG8JSAB	85,63	9,3	35,59	0	18	47	0	255	205	122	242	204	126
KG8M01B	14,74	15,08	12,93	55	85	77	81	60	27	14	56	33	23
KG8RFXB	24,88	11,76	-52,26	100	82	21	4	40	55	123	49	58	120
KG8VATB	33,6	-34,3	-20,97	100	33	41	28	0	92	96	28	93	96
KG8VEGB	55,8	-51,78	51,33	82	2	100	0	37	153	0	92	153	31
KG8VJAB	73,86	-8	78,64	26	13	100	2	198	183	0	193	181	0
KG8VMDB	20,06	-4,53	14,73	72	58	85	72	50	50	20	53	53	28
KG8VMOB	25,89	30,15	-37,51	86	100	12	2	90	40	104	80	44	103
KG8VPRB	72,11	-41,73	70,77	56	0	100	0	127	194	0	150	193	19

SMARTAC KG8000 and PANTONE/RAL colour chart correspondence table

The colorimetric correspondences below, between the SMARTAC KG8000 and PANTONE/RAL colours, as well as the colour differences stated in ΔE 2000, are provided for information purposes only and are not contractual.

It is the user's responsibility to visually compare the physical colour charts in order to assess the differences in colours and their acceptability. HEXIS decline all liability for direct or indirect consequences of the use of these tables.

For each match, a coloured icon tells you if the closest HEXIS colours are: very close (●), acceptable (●) or remote (●).

SMARTAC KG8000	PANTONE	ΔE 2000	=	RAL K7	ΔE 2000	=
KG8002B	PANTONE 649 C	6,6	●	RAL 9003	5,3	●
KG8002M	PANTONE Cool Gray 1 C	5,8	●	RAL 9003	1,6	●
KG8004B	PANTONE 7527 C	5,8	●	RAL 9010	3,3	●
KG8039B	PANTONE 2333 C	3,7	●	RAL 7039	1,5	●
KG80CIB	PANTONE 2028 C	2,3	●	RAL 2009	5,2	●
KG8106B	PANTONE 7563 C	0,7	●	RAL 1032	4,9	●
KG8108B	PANTONE 3945 C	1,4	●	RAL 1016	3,3	●
KG8109B	PANTONE 109 C	0,6	●	RAL 1021	3,7	●
KG8115B	PANTONE 7548 C	2,7	●	RAL 1023	2,8	●
KG8123B	PANTONE 7408 C	4,3	●	RAL 1021	3,6	●
KG8136B	PANTONE 7549 C	1,1	●	RAL 1003	2,2	●
KG8137B	PANTONE 137 C	2,8	●	RAL 1033	1,9	●
KG8164B	PANTONE Orange 021 C	2,6	●	RAL 2008	3,3	●
KG8165B	PANTONE 158 C	5,0	●	RAL 2008	4,4	●
KG8166B	PANTONE 166 C	1,3	●	RAL 2009	2,0	●
KG8186B	PANTONE 200 C	5,4	●	RAL 3001	3,3	●
KG8187B	PANTONE 2035 C	3,4	●	RAL 3020	2,0	●
KG8200B	PANTONE 484 C	6,0	●	RAL 3001	3,2	●
KG8201B	PANTONE 7623 C	3,4	●	RAL 3003	0,8	●
KG8220B	PANTONE 7635 C	2,8	●	RAL 4010	4,6	●
KG8221B	PANTONE 215 C	2,6	●	RAL 4010	7,6	●
KG8280B	PANTONE 288 C	2,2	●	RAL 5002	1,0	●
KG8293B	PANTONE 2945 C	3,0	●	RAL 5017	4,0	●
KG8297B	PANTONE 2190 C	5,8	●	RAL 5024	8,4	●
KG8299B	PANTONE 2192 C	2,2	●	RAL 5012	5,4	●
KG8300B	PANTONE 2945 C	3,6	●	RAL 5005	1,4	●
KG8302B	PANTONE 567 C	4,2	●	RAL 6005	4,4	●
KG8322B	PANTONE 322 C	2,2	●	RAL 5021	3,6	●
KG8336B	PANTONE 3298 C	10,1	●	RAL 6016	8,5	●
KG8342B	PANTONE 3425 C	4,5	●	RAL 6016	4,3	●
KG8348B	PANTONE 3415 C	3,1	●	RAL 6029	3,7	●
KG8354B	PANTONE 355 C	2,1	●	RAL 6018	9,5	●
KG8368B	PANTONE 7739 C	1,3	●	RAL 6018	2,7	●
KG8369B	PANTONE 2272 C	4,4	●	RAL 6018	4,9	●
KG8370B	PANTONE 370 C	2,3	●	RAL 6018	6,7	●
KG8375B	PANTONE 7488 C	3,0	●	RAL 6018	14,2	●
KG8428B	PANTONE 428 C	1,9	●	RAL 7047	3,4	●

SMARTAC KG8000	PANTONE	ΔE 2000	=	RAL K7	ΔE 2000	=
KG8430B	PANTONE 423 C	5,2	●	RAL 7046	1,5	●
KG8433B	PANTONE 446 C	4,6	●	RAL 7021	5,3	●
KG8445B	PANTONE 445 C	3,6	●	RAL 7012	1,1	●
KG8446B	PANTONE 445 C	5,7	●	RAL 7043	3,8	●
KG8468B	PANTONE 468 C	1,7	●	RAL 1015	2,1	●
KG8475B	PANTONE 476 C	4,1	●	RAL 8017	3,5	●
KG8476B	PANTONE 476 C	4,9	●	RAL 8017	3,8	●
KG8485B	PANTONE 485 C	4,6	●	RAL 2002	1,8	●
KG8503B	PANTONE 1815 C	4,6	●	RAL 3032	1,9	●
KG8505B	PANTONE 188 C	4,0	●	RAL 3004	2,8	●
KG8531B	PANTONE 289 C	1,3	●	RAL 5011	1,6	●
KG8532B	PANTONE 289 C	3,0	●	RAL 5011	2,1	●
KG8795B	PANTONE 173 C	4,4	●	RAL 2002	4,6	●
KG8870B	PANTONE 874 C	3,1	●	RAL 8000	7,4	●
KG8871B	PANTONE 871 C	2,2	●	RAL 8000	5,9	●
KG8875B	PANTONE 2336 C	4,4	●	RAL 7010	4,2	●
KG8877B	PANTONE 877 C	3,6	●	RAL 7004	1,7	●
KG8878B	PANTONE 446 C	6,2	●	RAL 7043	2,0	●
KG8879B	PANTONE 424 C	2,0	●	RAL 7037	1,9	●
KG8889B	PANTONE 276 C	16,4	●	RAL 9004	1,6	●
KG8890B	PANTONE 7449 C	19,0	●	RAL 9004	1,8	●
KG8890M	PANTONE 7448 C	17,5	●	RAL 9005	0,8	●
KG8899B	PANTONE Cool Gray 1 C	5,1	●	RAL 9003	3,2	●
KG8948B	PANTONE 7497 C	9,6	●	RAL 7039	0,7	●
KG8961B	PANTONE 2767 C	1,4	●	RAL 5013	0,9	●
KG8963B	PANTONE 2160 C	5,9	●	RAL 5007	3,7	●
KG8964B	PANTONE 648 C	1,5	●	RAL 5003	3,4	●
KG8965B	PANTONE 289 C	2,1	●	RAL 5011	2,4	●
KG8990B	PANTONE 877 C	2,3	●	RAL 7045	1,2	●
KG8BAVB	PANTONE Cool Gray 2 C	7,9	●	RAL 9003	2,0	●
KG8BHOB	PANTONE 299 C	6,3	●	RAL 5012	6,7	●
KG8BMEB	PANTONE 2758 C	2,8	●	RAL 5022	3,9	●
KG8GFUB	PANTONE 877 C	2,1	●	RAL 7045	0,8	●
KG8GPLB	PANTONE 425 C	4,2	●	RAL 7011	1,8	●
KG8GTEB	PANTONE 424 C	7,2	●	RAL 7037	5,0	●
KG8JSAB	PANTONE 1345 C	2,6	●	RAL 1001	7,7	●
KG8MO1B	PANTONE 7596 C	10,3	●	RAL 8017	4,2	●
KG8RFXB	PANTONE 2146 C	1,7	●	RAL 5002	5,1	●
KG8VATB	PANTONE 3155 C	1,7	●	RAL 5021	7,2	●
KG8VEGB	PANTONE 2272 C	1,9	●	RAL 6018	3,4	●
KG8VJAB	PANTONE 397 C	1,7	●	RAL 1012	8,0	●
KG8VMDB	PANTONE 5747 C	7,1	●	RAL 6008	5,0	●
KG8VMOB	PANTONE 7680 C	1,7	●	RAL 5022	11,8	●

SMARTAC KG8000	PANTONE	ΔE 2000	=	RALK7	ΔE 2000	=
KG8VPRB	PANTONE 2286 C	2,1	●	RAL 6018	15,2	●