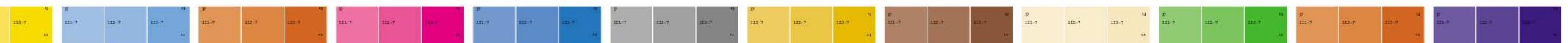


COLORTREND® 990 Typical Physical Properties / Typische Physikalische Eigenschaften

Product Code Produkt Code	Product Description Produkt Beschreibung	CI	Pigment	VOC(1) Gram / liter	S.g. Dichte	Weather fastness Wetterbeständigkeit		Light fastness Lichtechtheit		Heat Stability Hitzebeständigkeit	Solvent Fastness Lösemittelbeständigkeit
						Fulltone Vollton	Reduction Aufhellung 1/25	Fulltone Vollton	Reduction Aufhellung 1/25		
990-0018 KX	White	PW 6	59	277	1.940	5	5	8	8	>200°C	5
990-0422 V	Quinacridone Magenta	PR 122	9	385	1.380	3-4d	4	7d	7-8	200°C	4-5
990-0424 QM	Quinacridone Magenta	PR 122	20	384	1.160	3-4d	4	7d	7-8	200°C	4-5
990-0715 HX	HS Napthol Red	PR 112	18	366	1.500	4-5	3-4	7-8	4	150°C	2-3
990-0716 HXE	Organic Red	PR 254 / PR 168	25	518	1.310	4-5/5	4-5/4-5	7/8	7/8	200°C/180°C	4-5/4-5
990-0746 HT	Red Special	PV 19 / PR 168	13	393	1.460	3d/5	3-4/4-5	6d/8	7/8	200°C/180°C	5/4-5
990-0763 HXX	ES Naphtol Red	PR 112	40	289	1.260	4-5	3-4	7-8	4	150°C	2-3
990-0787 H	Fast Red	PR 123	5	375	1.650	3-4	3-4	7	7	150°C	4
990-0836 R	Organic Red	PR 188 / PV 19	16	348	1.550	4-5/3-4	3-4/3-4	7d/8	6-7/7	200°C/200°C	4-5/5
990-0978 GXX	ES Perma-Cal Orange	PO 73	21	376	1.350	4-5	4-5	8	8	200°C	4-5
990-0979 GX	Perma-Cal Orange	PO 73	9	340	1.520	4-5	4-5	8	8	200°C	4-5
990-1045 F	Red Iron Oxide	PR 101	62	332	2.090	5	5	8	8	>200°C	5
990-1572 I	Brown Iron Oxide	PR 101/ Brn 6 / PBk 11	52	254	1.830	5	5	8	8	>200°C	5
990-1810 C	Yellow Iron Oxide	PY 42	55	156	1.850	5	5	8	8	180°C	5
990-2009 L	Raw Umber	PR 101 / PY 42 / PBk 7	15	254	1.730	5	5	8	8	180°C	5
990-2022 YG	Inorganic Yellow	PY 184	60	255	2.060	4-5	5	8	8	200°C	5
990-2019 LA	Raw Umber	PBBrn 7	28	354	1.400	5	5	8	8	>200°C	5
990-2040 T	Medium Yellow	PY 74 / PY 83*	29	278	1.390	4-5/4d	4/3	7-8/7-8d	7/6-7	150°C/200°C	3-4/4-5
990-2504 AX	Perma-Cal Yellow	PY 97	33	158	1.150	4-5	3	7-8	7	180°C	3-4
990-2506 AT	Yellow 3	PY 3	30	352	1.350	4-5	3	7-8d	3	150°C	2
990-2551 AXX	Organic Yellow	PY 74 / PY 128	23	161	1.250	4-5/4-5	4/4	7-8/7-8	7/7-8	150°C/200°C	3-4/5
990-2554 SXX	ES Yellow	PY 74	45	264	1.230	4-5	4	7-8	7	150°C	3-4
990-2557 SX	HS Yellow	PY 74	25	282	1.450	4-5	4	7-8	7	150°C	3-4
990-5511 D	Phthalo Green	PG 7	9	373	1.670	5	5	8	7	200°C	5
990-7026 EX	HS Phthalo Blue	PB 15:3	20	359	1.410	5	5	8	8	200°C	3-4

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.



Product Code Produkt Code	Product Description Produkt Beschreibung	CI	Pigment	VOC(1)	S.g. Dichte	Weather fastness Wetterbeständigkeit		Light fastness Lichtechtheit		Heat Stability Hitzebeständigkeit	Solvent Fastness Lösemittelbeständigkeit
				Gram / liter		Fulltone Vollton	Reduction Aufhellung 1/25	Fulltone Vollton	Reduction Aufhellung 1/25		
990-7055 EXX	ES Blue	PB 15:3	30	416	1.240	5	5	8	8	200°C	3-4
990-7214 E	Phthalo Blue	PB 15:1	5	328	1.770	5	4-5	8	8	>200°C	4-5
990-8894 JX	ES Violet	PV 23	9	430	1.380	4-5	4	8	7-8	160°C	4-5
990-8895 J	Carbazole Violet	PV 23	4	288	1.650	5	3-4	7-8	7-8	160°C	4-5
990-9401 QV	Quinacridone Violet	PV 19	26	323	1.250	4-5	4	7-8	7-8	200°C	5
990-9907 B	Lamp Black	PBk 7	7	193	1.650	5	5	8	8	>200°C	5
990-9908 BX	HS Lamp Black	PBk 7	28	278	1.370	5	5	8	8	>200°C	5
990-9956 BXX	ES Lamp Black	PBk 7	41	312	1.250	5	5	8	8	>200°C	5

All data obtained directly from pigment suppliers, individual testing is recommended / Alle oben aufgeführten Daten wurden von den entsprechenden Pigmentherstellern übernommen.

Light fastness is measured on scale 1 to 8, where 1=severe change and 8=no change / Lichtechtheit ist bestimmt nach dem Blaumassstab, wobei 1 schlechtest und 8 bester Wert ist.

Weather and solvent fastness (tests performed with several commonly used solvents) are measured on scale 1 to 5, where 1=severe change and 5=no change. / Wetter –und Lösemittelbeständigkeit (Tests durchgeführt mit allgemein eingesetzten Lösemitteln) sind getestet auf eine Skala von 1 bis 5, wobei 1 schlecht und 5 gut ist.

"d" = color turns darker / "d" = Farbton wird dunkler.

*May decompose at temperature > 200°C and form aromatic amines. / *Das Produkt kann sich bei > 200°C zersetzen und aromatische Amine bilden.

"n/a" = not available from pigment supplier / keine Angabe vom Pigmenthersteller verfügbar

(1) Theoretical VOC calculation based on typical batch composition whereas VOC is defined as any organic compound with a (initial) boiling point equal or lower than 250 °C. For this calculation data supplied by raw material suppliers regarding solids content and VOC have been used.

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This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

