PRODUCT INFORMATION

Pantone® Matching System

Since 1963 the PANTONE® Matching System has developed to the standard in terms of colour communication. The colour guides are available as PANTONE® Formula Guide C for coated and PANTONE® Formula Guide U for uncoated material. Despite identical recipes in both guides, it was not observed whether the colour shades can optically be evaluated as identical. Concerning the arrangement of colours, pure ink mixings are in the middle of the guide. Further up the shades are brightened with transparent white, further down black ink is added – therefore darkened. The Pantone® Formula Guide ink mixing system consists of 13 basic inks, black and transparent white.

INK DESCRIPTION / FASTNESSES BASIC INKS

		Light Fastness	Sprit	Nitro	Alkali	Opacity	Lye resistant	UV-varnishable	Disp.-varnishable	Film laminating
Pantone® Yellow	62100	5	+	+	+	l	+	+	+	+
Pantone® Yellow 012	62109	5	+	+	+	l	+	+	+	+
Pantone® Orange 021	62110	5	+	+	+	l	+	+	+	+
Pantone® Warm Red	62101	3	+	+	-	l	-	-	-	-
Pantone® Red 032	62111	6-7	+	+	+	l	+	+	+	+
Pantone® Rubine Red	62102	5	+	+	-	l	-	bd	bd	bd
Pantone® Rhodamine Red	62103	4	-	-	-	l	-	-	-	-
Pantone® Purple	62104	4	-	-	-	l	-	-	-	-
Pantone® Violet	62113	4	-	-	-	l	-	-	-	-
Pantone® Blue 072C	62112	5	-	-	-	l	-	-	-	-
Pantone® Reflex Blue	62105	3	-	-	+	l	+	-	-	-
Pantone® Process Blue	62106	8	+	+	+	l	+	+	+	+
Pantone® Green	62107	8	+	+	+	l	+	+	+	+
Pantone® Black	51100	8	+	+	+	d	+	+	+	+
Pantone® Mixing White	80973/1		+	+	+	l	+	+	+	+

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Looking at the stated fastness properties it can be seen that not all suggested recipes in the PANTONE® Formula Guides have the necessary fastnesses for e.g. lamination, UV varnishing or label printing. Basically we recommend using inks with all fastnesses for every kind of print finishing. Should this not be possible, we urgently advise a practical test. In order to produce inks of the PANTONE® Matching System also with job-required fastnesses, the usage of basic inks with special fastnesses is necessary:

INK DESCRIPTION / FASTNESSES BASIC INKS

		Light Fastness	Sprit	Nitro	Alkali	Opacity	Lye resistant	UV-varnishable	Disp.-varnishable	Film laminating
Yellow	81190/1	6	+	+	+	ld	+	+	+	+
Orange	81191/1	6	+	+	+	l	+	+	+	+
Red	119225	6	+	+	+	l	+	+	+	+
Pink	81192/1	6	+	+	+	l	+	+	+	+
Violet	81195/1	7	+	+	+	l	+	+	+	+
Red	119221	5	+	-	+	ld	bd	bd	+	bd

Fastness properties according to:

Lightfastness:	ISO 2835:1974	Alcohol/Sprit:	ISO 2836
Solvent Mixture/Nitro:	ISO 2836	Alcali/Alcali:	ISO 2836
Lye resistance/Laugenbeständigkeit:	DIN 16524-7		

When using these inks it has to be considered that due to the pigments with higher fastness, slight differences in colour shade or metamerism effects cannot always be avoided. The inks of this system already include dryer.

AUXILIARIES

Additive	**Nr.**	**Dosage**
Universal Drier	452	max. 3 %
Rapid Drier fluid	058	max. 3 %
Eppo Drier Trockner pasty	2001	max. 3 %
Freshener	1526	max. 2 %
Scrub Protection Paste	420	max. 3 %
Printing oil mineral oil free	071	max. 5 %