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 and fastnesses of Pantone[®] Matching System Basic Inks:

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



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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.

In order to produce inks of the PANTONE[®] Matching System also with jobrequired fastnesses, the usage of basic inks with special fastnesses is necessary:

Yellow	81190/1	6	+	+	+	ld	+	+	+	+
Orange	81191/1	8	+	+	+	I	+	+	+	+
Red	81193/1	6	+	+	+	Ι	-	+	+	+
Pink	81192/1	6	+	+	+	Ι	+	+	+	+
Violett	81195/1	7	+	+	+	I	+	+	+	+

Fastness properties according to: Light fastness: Alcohol/Sprit: Solvent Mixture/Nitro: Alcali/Alcali: Lye resistance:

ISO 2835:1974 ISO 2836 ISO 2836 ISO 2836 ISO 2836 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.

This technical instruction sheet is designed for your information and reference. It is based on and conforms to our current knowledge. However as actual application is affected by many factors over which we have no control, we are not liable for printing failures.



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