NewV poly® – dayglow fluorescent inks

acc. to PANTONE® (Mercury, Iron-doped, ~~LED curing~~)

Currently no approval for LED UV

The PANTONE® MATCHING SYSTEM® is the most preferred, world-wide used colour communication system. Each colour refers to a spot colour, and each spot colour has a number. The system provides printing shades that cannot be mixed with CMYK process ink system and also allows to graphic designers, printers and brand owners to communicate about colour obviously, by referencing the PANTONE number.

The system also includes dayglow colours. These PANTONE PLUS "Neon Basic Colors" contains 14 colors. PANTONE 801-807 shades are monopigmented, and the 808-814 shades includes mixtures of the seven basic colours.

These special colours are based on a new type of formula and convince through reliable colour fidelity. In order to exploit all the achievable advantages of the raw materials used, both the binder system and the pigment base have been completely revised.

PANTONE® Dayglow Fluorescent Inks		
Inks		**Sales Code**
		NewV poly LED
		Mercury & Iron doped & LED
Blue	PANTONE 801	43UPL0801
Green	PANTONE 802	44UPL0802
Yellow	PANTONE 803	41UPL0803
Orange	PANTONE 804	41UPL0804
Red	PANTONE 805	42UPL0805
Red	PANTONE 806	42UPL0806
Violet	PANTONE 807	43UPL0807
Green	PANTONE 808	44UPL0808
Yellow	PANTONE 809	41UPL0809
Orange	PANTONE 810	41UPL0810
Red	PANTONE 811	42UPL0811
Red	PANTONE 812	42UPL0812
Violet	PANTONE 813	43UPL0813
Violet	PANTONE 814	43UPL0814

Application

- Products - for absorbent and non-absorbent substrates
- Coated and uncoated paper and board
- Pre-treated (corona or gas flame) or primed, non-absorbent substrates such as PE, PVC, PS, PP, etc.
- aluminium-vaporized paper and cardboard
- Aluminium foils 1

The fluorescent inks reach the respective PANTONE plus " Neon Basic Colors" reference colors as a rule, with one printing unit in one machine pass with an ink application of approx. 2.5 g/m³ (grammage)

As a result of the relatively coarse pigments, the printability of dayglow fluorescent inks differs from the conventional offpoly inks. The coarser pigment structure may lead to ink splitting problem between the plate and the blanket or between the blanket and the substrate.

To obtain the desired optical effect, a thicker ink film or a second run is usually necessary, which if possible should not be wet-on-wet.

We recommend you carry out a printability test before beginning the commercial print run.

NewV poly® – dayglow fluorescent inks contain special dyes; this substances have negative effect on UV-resistant roller coverings and rubber blanket materials (e.g. EPDM). During the printing run piling and swelling problems may occur.

Fastness properties

By the reason of the special pigments, the fastness properties of the neon inks are poor.

The light fastness of dayglow fluorescent inks is minimal. It is not recommended to use them for outdoor posters and for products that are exposed to intensive light or direct sunlight.

Neon inks are not resistant to spirit varnishes or nitrocellulose varnishes, and they have no alkali fastness either (tested acc. to DIN 16524). If the print needs to be laminated or finished with a water-based coating or UV varnish, previous test is always necessary.

Finishing

The PANTONE formula guide presents the colours without surface finishing. Please consider that varnishing or lamination will lead to a change in the colour shade. This is technically unavoidable and cannot be prevented by modifying the formula.

Food and confectionery packaging

The products listed above are not suitable for printing primary food packaging or secondary packaging where the primary layer is not a barrier against migration of substances from the printed layer to the packed product. More information on the subject of packaging for food, cosmetics, pharmaceutical products, tobacco can be found in the information sheet *50.G.002 NewV for food packaging*. Please also find information on the webpage of the European Printing Ink Association: www.eupia.org.

Classification

Safety data sheet is available on request.

Shelf life

The minimum shelf life of these products is 12 months from the production date if the container is not opened. But dependent on the storing and handling conditions, they can be usable much longer. For extending the warranty period, please contact our sales representatives.

Further information: Store between 5 - 25°C. Higher storage temperature may reduce shelf life. Protect from frost and sunlight. The cans need to be closed back immediately after usage.

Packaging

1 kg one-way cans