



Gecko® Frontal Vantage M/S

Printing inks for flexible packaging

Description

A full colour range of pigmented nitrocellulose mono solvent printing inks, designed for the application of surface printing for gravure printing.

Applications

Flexible packaging for PVC films and PVDC-coated films.

Use in surface printing

The Gecko Frontal Vantage series can be used for the standard surface printing applications. If an improved scratch resistance should be needed, our Wax Additive solution can be used in the amount of 2-4%. This additive improves the scratch and rub resistance. This Series is not suitable for pasteurisation and sterilization. Given the wide variety of PVC and PVDC-coated film commercially available, a print test before the actual industrial run is strongly recommended.

Print Process

Rotogravure printing for surface printing.

Properties

Ink adhesion	4
Light fastness (full tone)	3 -8 *
Scratch resistance	3

Rating scale(1 to 5 based on Gecko product range) 1 = worst value, 5 = best value. (*) For Light Fastness: Wool Scale 1 = worst value, 8 = best value.

Note: All properties are a guideline only and must always be tested on the specific application.

Substrates: PVC, PVDC-coated PP, PVDC-coated Cellophane, Acrylic-coated PP, NC-coated Alu, Paper

- **A preliminary adhesion test is strongly recommended**

Print viscosity

Diluents	Flexographic 20 – 25 s DIN 4	Gravure 15 – 20 s DIN 4 15 – 20 s DIN 4
Slow drying	-	n-Propyl acetate
Standard	-	Ethyl acetate
Retarder	-	Methoxy propanol or Methoxy propyl acetate

Auxiliaries

- Metallics** a full range of Silver and Gold inks is available
- Additives** For the application of surface reverse printing for sleeves, the addition of our Additive OR Rotoink/ WP (code 270174) is needed.

Instructions for the use of printing inks for the production of primary food packaging

For information on the use of printing inks for the manufacture of food packaging please refer to the respective „**Statement of Composition**". This information is provided to allow the calculation of possible levels of migration of evaluated substances in a worst case situation.

Migration tests at hubergroup laboratories with printed samples made from commercially available OPP film (film thickness: 35 µ, printed weight: 6 g/m², with 95 % ethanol as the food simulant) and PE film (film thickness: 50 µ, printed weight: 6 g/m², with 95 % ethanol as the food simulant) showed no migration of substances above legal limits. Based on the results of these migration tests, we expect that the printed inks enable the final printed products to comply with the legal requirements for packaging for all kinds of foodstuff.

The manufacturer of the finished article and the filler have the legal responsibility to prove by appropriate migration testing that it is fit for its intended purpose.

In order to maintain low residual solvents concentration in the printed film, the printer must ensure sufficient drying of the inks, especially when retarders have been added. Residual solvent content must be regularly monitored.

The inks must not be used in the manufacture of packaging where the printed ink layer is intended to come into contact with foodstuff (direct food contact).

There are restrictions for the use of printing inks for applications where temperatures above 120 °C for extended periods of time are applied. For details, please see document "Food Packaging Inks for High Temperature Applications".

Health & Safety

The material safety data sheets contain all relevant information for the generation of appropriate internal plant instructions. The user is responsible for all local legislation requirements.

Ink Handling

Please refer to General Guidelines for handling inks for flexible packaging.

Storage

Store the packaged material in the original packaging at a temperature not below 5°C and not in direct contact with sunlight.

Contact addresses for advice and further information can be found under www.hubergroup.com
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