



Gecko® White High Speed

Solvent based printing inks for flexible packaging

Special White

77GW371662

Description

A plurisolvant, NC-based, single component white, specific for high print speed and designed for internal printing lamination applications on flexible films.

Printing Process

Flexographic printing.

Applications

Reverse printing for lamination.

Suitable for food and beverage flexible packaging.

Substrates: LDPE, HDPE, BOPP, Coex OPP, acrylic PP

Minimum surface tension: LDPE, HDPE, BOPP, Coex OPP: 38 mN/m (mN/m = dynes/cm).

Use This product must always be activated with Adhesion Promoter (70GH278345) in the amount of 3 – 5% to print on PE and PP (except in the case of PP acrylic).

Properties

Dry content	41% ± 2	Viscosity (DIN 4)	25 – 30 s
Adhesion	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	Heat resistance	160° - 180° C

■ = positive rating point on a scale from zero to max. Ten points for highest value / best suitability

Note: All technical properties are a guideline only and depend on pigment choice and final application. For details about exact test methods which are the basis for info about fastness properties given above please refer to the general test method overview.

Auxiliaries

Additives: In order to be used for surface applications, 2 – 4% of Wax Paste (70GH257411) must be added. For specific property changes, please contact your local technical service.

Note For very crucial supports a preliminary adhesion test before the production is strongly recommended. For critical application is strongly recommended a retention solvent test.

Printing viscosity

Diluents	Flexographic Printing 20 – 25 s DIN 4	%
Slow	n-Propanol/n-Propyl Acetate	90:10 to 70:30
Standard	Ethanol/Ethyl Acetate	90:10 to 70:30
Fast		
Retarder	Ethoxy Propanol	

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

For information on the use of printing inks, varnishes and additives 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 **huber**group laboratories with printed samples made from commercially available OPP film (film thickness: 35 u, printed wet ink: 6 g/m², with 95 % ethanol as the food simulant) and PE film (film thickness: 50 u, printed wet ink: 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 product, especially when retarders have been added. Residual solvent content must be regularly monitored.

The products 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 100 °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 Conditions

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