

PROVISIONAL TDS



Gecko[®] Gloss HCF CSRL MC;GL

Solvent based overprint varnish for flexible packaging.
50GL510382

Description

A plurisolvant lacquer with release properties against coldseal adhesives.

Printing process

Gravure printing.

Applications

Surface printing.

Suitable for food, sweets and ice-cream packaging. Suggested quantity to be applied (dry solids): 1,2 – 1,5 g/m².

For further information about the application of this product please refer to the Guideline “Gecko Coldseal Release Application Information” (11G006).

Substrates: BOPP, Coex OPP

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

Properties

Adhesion	5	C.O.F* (dynamic)	0,25 – 0,35
Viscosity (DIN 4)	13 – 18 s	Gloss	130 – 140

Rating scale (1 to 5 based on Gecko product range) 1= worst value, 5= best value

Note: all technical properties are a guideline only and depend on final application. COF value will depend on specific printing conditions, such as printing substrate, ink system and lacquer coat weight. Usually final COF value will be reached after several days only. 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. * The COF value was determined measuring overprinted varnish versus overprinted varnish (over GBT inks).

Printing viscosity

Diluents	Flexographic printing (not applicable)	Gravure Printing 13 – 18 s DIN 4
Standard		Ethanol/Ethylacetate 70/30
Slow		n-Propanol 100

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Mixing	This varnish must be always well stirred before the use.
Final Effect	The properties of the Release Varnish depend on the application parameters, type of adhesive, drying conditions, substrate and the type of inks. It is recommended to perform preliminary tests before the application. The varnish must be applied on the treated side of printed or unprinted coex OPP.

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 **hubergroup** laboratories with printed samples made from commercially available OPP film (film thickness: 35 µ, printed wet ink: 6 g/m², with 95 % ethanol as the food simulant) and PE film (film thickness: 50 µ, 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 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 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.

Contact addresses for advice and further information can be found under www.hubergroup.com
This Technical information sheet reflects the current state of our knowledge. It is designed due to the many variables in materials for printing, design construction, processing conditions and test criteria, this Technical Data Sheet can only be of an advisory nature. Our data reflect the latest state of our knowledge and are based on the characteristics established in the laboratory and on practical experience. Because there are many factors under the control of the user which may affect processing or application/use, it is necessary for the user to carry out appropriate tests to determine whether the product(s) is technically and safely suitable for the particular purpose, prior to use. **hubergroup** disclaims any liability for applications for which this ink series is not foreseen. No warranties of any kind, either expressed or implied, are made regarding the products here described. The English version is the master document, on which to refer for any translations.