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86UV

PILOT PROJECT: 86UV

Latest Generation of "Lowest" Possible Migration Ink for Printing of Food Packaging

A lot of room for improvement.... with our new product 86UV we are on the safe side: Migration? Hardly any! According to migration tests carried out most substances could not be detected in our ink, meaning they were below the detection limit of 10 ppb. Although some of these substances have been evaluated and conformity would have been reached with a migration up to a specific limit value. Only one substance could be quantified, however, significantly below the specific migration value (SML). Information for insiders: The evaluation was carried out according to the latest more stringent requirements: Duration of test: 10 days at 60°C (before 40°C), food simulation: 95% ethanol. In short: With 86UV, you will easily obtain conformity with a sufficient safety span, surely reassuring for manufacturers of food packaging.

LOW-MIGRATION INK

Implementation of latest findings without any compromises!

Since end of 2014, Coates Screen Inks has been successful on the food packaging market - with screen ink 85UV especially for printing of PET bottles. In addition to excellent technical processing properties, this ink has a quite low migration potential.

As a result of a risk analysis, this ink was classified as non-hazardous for printing of food packaging.

When we presented 85UV, we

already promised that possible formulation limits had not been achieved yet and that we would continue working on this challenging project.

With this new generation 86UV, the migration potential again has been significantly reduced compared to 85UV. This ink is a completely new formulation. When choosing the raw materials all latest experiences were taken into close consideration.

No compromises – this is a consequent implementation of everything technically possible at present.

It was our goal to achieve conformity without any technical limitations and we succeeded!



TEST PASSED!

We printed PE-bottles with a typical and general motive with 86UV. These bottles were sent to an external test laboratory. Conformity according to §31 LFGB or the European Frame Regulation (EU) No. 1935/2004 on Materials and Articles intended to come into contact with Food has been confirmed by a leading accredited test laboratory.

Specific migration of individual evaluated substances according to Appendix I of the European regulation on plastic materials VO (EU) No. 10/2011 is below the individual specific migration limits (SML).

Naturally, this ink also complies with Nestlé Guidance Note on Packaging Inks, version 02-2014 and the Swiss Ordinance (EDI Regulation on Materials and Articles in contact with food SR 817.023.21).



ANY MORE POSSIBILITIES?

Or is that the limit?

Have we now gone as far as we can with 86UV? From the point of view of a technician formulating printing inks: for the time being yes! We are quite close to possible limits. However, the chemical industry is constantly advancing and will surely launch new products in the future. We will keep a close track on developments and respond to new and changing conditions.

Any responsible manufacturer of food packaging materials has to carefully and perfectly co-ordinate all processes in order to achieve conformity of all food regulations.

We will be pleased to assist you in co-ordinating your process parameters and send you samples of our new ink.

Just contact us.

