



Truepress LABEL 350UV SAI-LM



## CMYK + White + Orange

### LOW MIGRATION INKS

As the label and package printing industry has found itself exposed to more types of food packaging and different end uses, so it has come under increased scrutiny from brand owners aware of the risks to their reputation from the fallout from migration. New regulations are being introduced and existing ones updated to ensure the health and wellbeing of consumers is not put at risk from migration.

The LM ink sets comply with European Printing Ink Association (EuPIA) Guidelines including, Swiss Ordinance, Nestle Guidance, Good Manufacturing Practice (GMP) as well as REACH and VOC directives.

The digital printing industry has also found itself under greater scrutiny given the growing prominence of the technology as a tool for producing food packaging. With the potential to achieve scale, image quality and low running costs that match, and in many cases exceed conventional printing technologies, inkjet printing has been identified as offering the greatest opportunity to expand the digital printing spectrum.

## **SCREEN Low migration inks are compliant with**



EuPIA – Exclusion Policy for Printing Inks & Related Products



EuPIA Suitability List of Photo-Initiators for Low Migration UV Printing Inks and Varnishes



EuPIA – GMP – Good Manufacturing Practice – Printing Inks for Food Contact Materials



Positive list on Swiss Ordinance (SR 817.023.021 Annex 6, 10)



Nestlé Guidance



Voc Free



Latex Free



REACH (SVHC) / RoHS



## LOW MIGRATION!

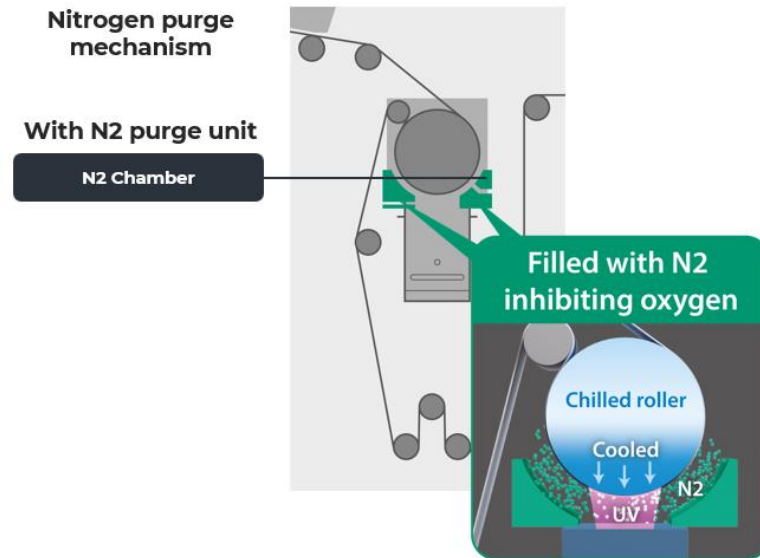
“Low migration” as a term has been prevalent in the printing ink market and food packaging sector for a number of years. It is a term that is intrinsically linked to food packaging compliance and the production of indirect food contact packaging, where the foreseeable use of the printed package does not result in direct contact between the foodstuff and the print.

## NEW GENERATION!

Developed and Introduced back in 2017 and now a market leader in the supply of Low Migration UV inkjet systems, It is therefore of no surprise that the next generation of Screen SAI inkjet presses continue with food compliance in mind.



## UV LAMPS POLYMERIZATION WITH NITROGEN CHAMBER!



Initiators and monomers included in UV inks are extremely small on a molecular level and have the potential to penetrate general packaging and enter the food inside. The low viscosity of UV inkjet inks is also known to make it hard to achieve a proper cure once they penetrate the substrate. Screen's proprietary low migration inks are specially developed with a unique material composition to work with a nitrogen purge mechanism to accelerate and deepen UV curing. Together, they are highly successful in reducing the migration of ink components.

The Screen Truepress Jet L350UV+LM UV inkjet press comes equipped with a nitrogen purge mechanism that dramatically reduces extractable ink components after printing. This directly relates to mitigating the risks from diffusion migration, as when oxygen is present it interferes with the curing process and makes it impossible for inks to fully polymerise. The sensors in the nitrogen chamber of the Truepress Jet L350UV LM devices dictate that the press will not run if oxygen is present. This guarantees that low migration printing is actually delivered at all times.