



Description

V4277 is Green to Blue no-MEK and Swiss FPO compliant thermochromic ink for use in Videojet continuous inkjet (CIJ) printers. This ink shows excellent performance on mono material biaxially oriented polypropylene (BOPP) flexible film, traditional polyethylene terephthalate (PET) flexible film, and other plastic containers requiring retort or pasteurization.

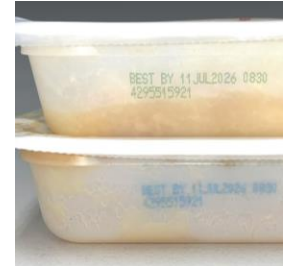
Benefits

- iQMark™ food packaging
 - Swiss and German Food Packaging compliant
 - No MEK, no ethanol formula
- Dramatic green to blue color change after cooking at 120 °C for 20 minutes
- Succeeds Videojet V465, V470, V473, V474, V475, V517, V515, V513, V519, V520 legacy inks

Applications

V4277 ink delivers fast dry time and excellent adhesion on aluminum, glass, polystyrene, polyvinylchloride, polycarbonate, polypropylene, and steel containers. For maximum contrast, print the ink within a white knockout area on the container.

This ink is used to apply best by and traceability data on shelf stable food products. The food products are rendered shelf stable by cooking at high temperatures and high pressures. This ink survives these conditions and changes color to indicate that the food has been through the cooking process.



Adhesion

Plastic	<div><div></div><div>✓</div><div></div></div>	Average	Good	Excellent
Metal	<div><div></div><div></div><div>✓</div></div>	Average	Good	Excellent
Glass	<div><div></div><div></div><div>✓</div></div>	Average	Good	Excellent

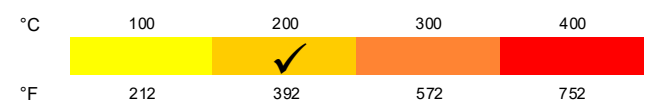
Light Resistance

<div><div></div><div>✓</div><div></div></div>	Days	Weeks	Months
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Dry Time (seconds)



Dry Heat Resistance (maximum)



Chemical Resistance



V4277

Continuous inkjet Inks



Specifications

Product	Product Type	Color	Solvent Type	Container Size	Shelf life
V4277	Ink	Green	MPK / Acetone	750 ml (-D) 1000 ml (-L)	12 months*
V7277	Make-up	Colorless to pale yellow	Acetone / MPK	750 ml (-D) 1000 ml (-L)	24 months*
V930	Cleaner	Colorless to pale yellow	Acetone	1 liter (-Q)	30 months*
V940	Cleaner	Colorless to pale yellow	Ethyl Acetate	1 liter (-Q)	30 months*

Storage *Store between 2°C and 35°C (35°F and 95°F).

Printer Parameters

Qualified Models	Operating Temperature	Operating Humidity	Nozzle Compatibility
1280 s/w v52655 or later, 1580/+, 1880/+, 1880UHS	5-45 °C	10-90%	60µm, 70µm

Compliance

iQMark™: V4277 ink was responsibly designed and manufactured to maximize contrast, adhesion, and uptime while meeting safety, environmental, and regulatory requirements. Every batch is tested to ensure it meets strict quality control specifications. V4277 ink does not contain Ethanol, Methanol, major allergens, animal based raw materials, nor organisms, genetically modified or not. Compliant with Swiss and German food packaging ordinances. No European Printing Ink Association (EuPIA) Exclusion List materials. For information, refer to Knowledge Articles 1148, 1190, and 1152.**

Food Packaging: V4277 ink may be used on the non-food contact side of food packaging. The packaging must provide a barrier between the ink and the food. When used in this manner, the inks are in compliance per 21 CFR 170.3(e)(1), Regulation (EC) No. 10/2011, and Regulation (EC) No. 2023/2006. For information, refer to Knowledge Article 7921. All components in this ink meet the selection criteria of the Swiss Food Contact Materials Ordinance Regulation No. 817.023.21 (1 July 2024) and the German Twenty First Ordinance amending the Consumer Goods Ordinance from 2 December 2021. For information, refer to Knowledge Article 14389.**

Product Packaging: V4277 ink, make-up, and cleaners are shipped in sustainably forested cardboard boxes. Ink and make-up cartridge components and cleaner bottles are recyclable. For information, refer to Knowledge Article 14286.**

Heavy Metals: V4277 ink meets the requirements of CONEG model legislation including 94/62/EC. For information, refer to Knowledge Article 1153.**

RoHS: V4277 ink meets the requirements of the RoHS 2 Directive 2011/65/EU and Directive (EU) 2015/863. For information, refer to Knowledge Article 1159.**

REACH: V4277 ink is in compliance with EU Regulation (EC) No. 1907/2006 as amended. For information, refer to Knowledge Article 1156.**

Halogens: V4277 ink meets the International Electrotechnical Commission (IEC) definition of Halogen-Free. For information, refer to Knowledge Article 7920.**

PFAS: V4277 does not contain intentionally added PFAS as defined by the Organisation for Economic Co-operation and Development (OECD). For information, refer to Knowledge Article 19249.**

**Environmental, Health, Safety, and Regulatory information can change without notice, consult the current Safety Data Sheet (SDS) which is available on the Videojet website. Knowledge Articles are available by calling or emailing Videojet.



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