

Technical Data Sheet – Cyjet Digital Inks

Overview

The **Cyjet Digital Ink** set is a UV-curable inkjet ink suitable for high-speed single-pass printing at speeds of 50 m/min and higher. The 4-color ink set (CMYK) is designed for very good adhesion on many different types of substrates, especially polymeric substrates such as PP, PVC, PET. For many of these substrates, pre-treatment (corona, plasma or flame) will have a positive effect on adhesion.

Field of use

The **Cyjet Digital Ink** set is suitable for single-pass printing with piezo printheads with requirement for standard inkjet viscosity, including printheads from Konica Minolta, Xaar, Ricoh, Toshiba TEC, Fujifilm Dimatix, Seiko.

Key Benefits

- Single-pass wet-on-wet printing or printing using intercolor pinning
- Very high cure speed for curing with Hg bulbs (up to 80 m/min with one Hg bulb)
- High cure speed for curing with UV LED (up to 50 m/min for one 16 W LED 395 nm)
- Wide color gamut
- Pre-treatment of the substrate will mostly have a positive effect on adhesion
- Printing on a broad range of plastic materials as well as other types of materials. Priming mostly improves adhesion and image quality
- Ink parameters suited for jetting with standard industrial piezo print heads
- Extremely high jetting reliability and low print head maintenance needed
- Black ink delivers very high neutral black density prints (marking & coding)

Technical specifications

Specification	Cyan	Magenta	Yellow	Black
Static Surface Tension (25°C)	23.0–25.0 mN/m	23.0–25.0 mN/m	23.0–25.0 mN/m	22.5–24.5 mN/m
Viscosity (at 45°C and 12 rpm)	9.5–11.5 mPa.s	9.5–12.0 mPa.s	9.0–11.0 mPa.s	9.5–11.5 mPa.s
Pigment Particle Size (average)	<140nm	<150nm	<160nm	<150nm
Shelf Life (from production date)	18 months	18 months	18 months	18 months

*when stored under recommended conditions (4–23°C in closed in original bottles, not in direct sunlight and away from heat and UV-radiation sources)

Safety Information

Safety Data Sheets for **Cyjet Digital Inks** are available according to EC regulation 1907/2006, including classification and labeling information and safe use information. Such data may also be derived from the respective label.