

TABLE 1 Types of ink for different printing processes/end products

Printing process	Type of product	Ink type	Viscosity (Pa.s)	Pigment particle size (µm)
Web heatset offset	Publication, packaging	Oil-based, UV curable	30 up	0.2–0.7
Sheet-fed offset	Publication, forms	Oil-based, UV-curable	100 down	0.2–0.7
Flexography	Packaging, labels, electronics	UV, EB, solvent-based Water-based	0.05–0.5	0.1–0.5
Rotogravure	Publication	Toluene Water-based (EU)	0.05 up	0.1–0.5
Rotogravure	Packaging, product, electronics	Water-based, solvent-based	0.2 up	0.1–0.5
Inkjet	Publication, packaging, product, electronics	Solvent-based, water-based, hot-melt (phase-change)	0.001–0.04	0.05–0.5
Screen printing	Textiles, electronics, product packaging	Solvent-based, UV-curable, water-based, WB UV-curable Oil-based	0.5–50	0.8–2.5