

DTF

DTF300

Direct-to-Film Pigment Ink

Technical Data Sheet

Product Description: A water-based inkjet ink for Direct-to-Film printing. Compatible with printheads requiring low viscosity inks.

Usage Conditions: An environment where the relative humidity is between 40% and 80% (non-condensing) and the ambient temperature is between 15°C and 30°C (59°F – 86°F). **MIX UNTIL HOMOGENEOUS BEFORE USE.**






Powdering and Curing Conditions: Note: The conditions provided below are a starting point for guidance purposes only. Final conditions should be adjusted based on the type of TPU powder, film and garment blend used by the operator.

After printing on the DTF film, apply the TPU powder and melt at 290-330°F for 2-4 mins using an appropriate DTF oven.

Transferring Conditions: Place the film powdered side down in contact with the garment. Use medium pressure for 15-60 seconds at 290-330°F to transfer the print to the garment. Peel off the transfer film hot or cold based on the type of film used.

Shelf Life and Storage: Two years for colors, one year for white from date of manufacture if stored in sealed containers between 5°C and 35°C (41°F - 95°F). PROTECT FROM FREEZING.

Ink Color and Product number

	Cyan	DTF300C
	Magenta	DTF300M
	Yellow	DTF300Y
	Black	DTF300K
	White	DTF300W

Specifications for Colors:

- Viscosity: 3 – 5 mPa.s (determined by A&D SV-10A Vibro Viscometer @22°C)
- pH: 8.0 – 9.2
- Density: 1.02 – 1.09 g/ml
- Dynamic Surface Tension: 30 - 40 mN/m (determined by Bubble Pressure Tensiometer @ 20ms)
- Static Surface Tension: 26- 32 mN/m (determined by Bubble Pressure Tensiometer @ 1400ms)

Specification for White:

- Viscosity: 3.5 – 6 mPa.s (determined by A&D SV-10A Vibro Viscometer @22°C)
- pH: 8.0 – 9.2
- Density: 1.10 – 1.20 g/ml
- Dynamic Surface Tension: 40 - 50 mN/m (determined by Bubble Pressure Tensiometer @ 20ms)
- Static Surface Tension: 26- 34 mN/m (determined by Bubble Pressure Tensiometer @ 1400ms)

Note: The instructions given are a starting point for testing. It is the user's responsibility to optimize the system for their specific needs. We cannot guarantee compatibility when using inks or solutions from other manufacturers.

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