Mimaki UV-DTF Film Best Practice and Quick Start Guide

*Mimaki UV-DTF Film (A & B films) designed exclusively for **Mimaki UJV300DTF-75***

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Product Overview

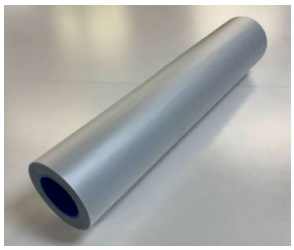
Mimaki UV-DTF Film set (MIU-120-620-100) is a dedicated media system comprised of 2 rolls – An A Film & B Film which are designed to work together for the UJV300DTF-75, enabling high-quality UV printed graphics to be transferred onto curved, uneven, or hard-to-print objects. Graphics are printed on the specially glued A Film, and then automatically in-line laminated onto the application sheet B film, and then transferred to the final object.

This expands UV Printing application possibilities while maintaining strong adhesion, durability and image quality.

A Film 30.8 lb (14kg)



B Film 15.4 lb (7kg)



Note: ITEMID for ordering

MIU-120-620-100 for Single Set of A & B Film Rolls

MIU-120-620-100(1pallet-20set) for 20 Sets of A&B Film Rolls

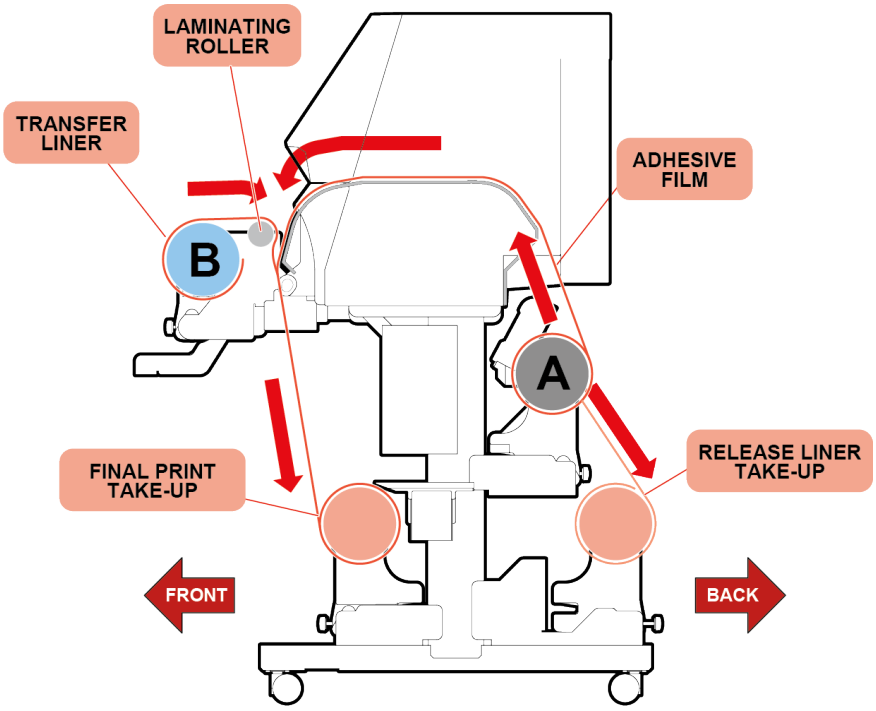
Film must be ordered as a Set, single rolls are not available. Quantities other than increments of 20 Sets will have the Single Set price.

- Anti-static coating for improved handling, and print quality
- Low residue print edges (doesn't leave your transfer tacky)
- Thick release liner for stable media transport and less chance of head-strike
- Low tack print surface for better handling
- Strong adhesion after transfer

Performance Expectations

- **Adhesion & durability**
  Strong adhesion on glass, stainless steel, and ceramics when applied correctly. Designed to resist water, cleaning agents and everyday handling.
- **Heat & dishwasher resistance**
  Demonstrated resistance on glass and ceramics under heat and dishwasher testing. Plastics may vary by formulation.
- **Image Quality**
  High-quality solid areas, clean edges, and accurate fine detail when recommended artwork guidelines are followed.

Loading and Unloading UV-DTF film to UJV300DTF



Step-by-step video instruction

Scan or click the QR code below



Loading the UJV300DTF

Unloading the UJV300DTF

Animation Showing Overview

UV-DTF IS BEST USED WHEN DIRECT-TO-OBJECT UV PRINTING IS NOT PRACTICAL DUE TO SHAPE OR GEOMETRY. IT IS NOT MEANT TO REPLACE DIRECT-TO-OBJECT, BUT TO COMPLIMENT IT AND EXPAND SELLABLE APPLICATIONS PORTFOLIO.

Applications



Best-suited substrates

- Glass (treated or untreated)
- Metals
- Ceramics*
- Rigid plastics
- Generally good on rigid surfaces

Conditionally suited substrates

- Semi-rigid Plastics* (material dependent if used in dishwasher or microwave)
- Painted or coated surfaces

Common uses

- Drinkware and containers
- Curved promotional products
- Consumer electronics personalization
- Decorative and functional goods

* PP and Ceramic tested up to 50 dishwasher cycles with minimal damage to solid print areas, some damage to finer line work at 46 and 40 cycles respectively.

Recommended Print Settings

Finish	**Matte (W/C/Cl)**	**Semi gloss (W/C/Cl)**	**Gloss (W/C/Cl)**	**Translucent Matte (Cl/C/Cl)**	**Translucent Gloss (Cl/C/Cl)**	**2nd Surface (Cl/C/W)**
UV Setting	**Matte**	**Gloss**	**Gloss**	**Matte**	**Gloss**	**Matte**
Resolution*	600 x 600 to 600 x 1200	600 x 600 to 600 x 1200	1200 x 1200 32 pass	600 x 600 to 600 x 1200	1200 x 1200 32 pass	600 x 600 to 600 x 1200
White Density	70% rec. (50-100%)	70% rec. (50-100%)	70% rec. (50-100%)	-	-	70% rec. (50-100%)
Clear Density	75% rec. (60-100%)	100% rec. (70-100%)	100%	75-100% top layer 75-100% bottom	100% top layer 75-100% bottom	75% rec. (60-100%)
Pre heat/platen	140 °F / 60 °C	140 °F / 60 °C	140 °F / 60 °C	140 °F / 60 °C	140 °F / 60 °C	140 °F / 60 °C
Post Cure Heater Temp	158 °F / 70 °C	158 °F / 70 °C	158 °F / 70 °C	158 °F / 70 °C	158 °F / 70 °C	158 °F / 70 °C

* MAPS quality enabled by increasing default pass count on most profiles

Artwork Guidelines

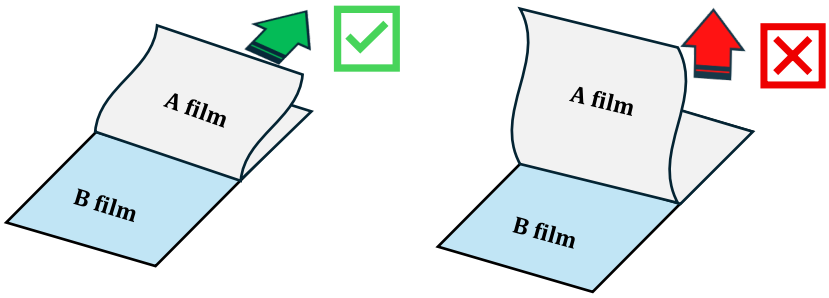
Small shapes	square / dot | min 2.5mm		**Solid print**	10%-100% density ok
Font	5pt or more		**Diagonal line**	0.2mm minimum line thickness

Finish | Gloss is less likely to have transfer issues than matte surface print. Gloss / Semi-gloss interacts more efficiently with the B Film transfer liner.

Transfer testing performed with 600 x 600 resolution.

Post Print Film Separation

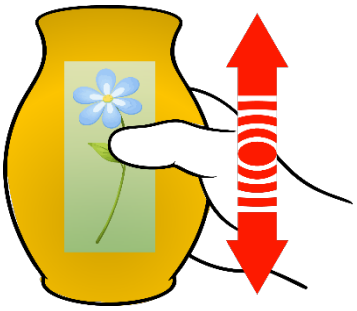
Find an edge to lift by grazing finger towards B Film side. Once it's started, lay the piece front **face down** and slowly peel the A Film at a **high degree**, close to the table surface until it is all separated.



Application to rigid surface

Apply image to clean rigid surface starting with the center of the image. With fingers, gently press in an outward motion. After the transfer film is applied, more pressure can be applied if appropriate, with hand or application tool.

For difficult materials or complex curves can be pre-heated with a hair drier. (caution: heat gun may be too hot for material and may cause injury) Heat can help the film flex to assist with the application.



Storage and handling

- Store at **20–25 °C**, **55% ±10% RH**
- Keep media flat and in original packaging
- Avoid direct sunlight
- Handle by edges; gloves recommended

Compliance and notes

- Manufactured under ISO 9001 and ISO 14001 standards
- RoHS / REACH compliant; MSDS available
- Additional testing required for toy or textile end use

This product guide is intended for reseller reference and customer communication. Mimaki UV-DTF Film is designed exclusively for use with the UJV300DTF-75.

Material Specs

A & B Film	Dimensions		24.4” x 328’ (620mm x 100M)
	Operating Environment	Temperature	68-77 F (20～25℃)
		Humidity	55±10%
	Storage environment	Temperature	20～25℃
		Humidity	55±10%
	Warranty Period		12 months
A Film	Materials	Backing	PET-25（25μm）
		Adhesive lay	**Acrylic Adhesive (30-31μm)**
		Release Film	**PET-100（100μm)**
	Thickness (Backing + Adhesive layer + Release film)		155±5μm
	Viscosity		**26.5 ± 2N/25mm**
B Film	Materials		PVC
	Thickness		85±5μm

Recommended Additional Materials

The Olfa cutting tool makes cutting the liner easy without cutting through to the Release Film.

Olfa Cutting Tool



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