UV DTF FILM
UV DTF 打印膜

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DIGITAL TRANSFER TECHNOLOGY

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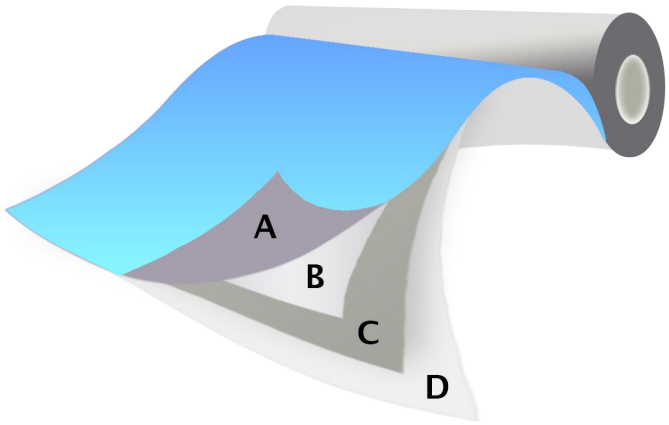
JELLY PRINTABLE UV TPU DTF FILM FOR 3D

3D UV Jelly Film is a specialty printing material developed for producing glossy, raised, and highly dimensional logos and decorative graphics.

The jelly-like surface creates a soft, liquid-inspired appearance with rich gloss, vivid colors, and clear light reflections. Unlike ordinary flat printing, its domed structure enhances the depth, outline, and detail of the design, making logos appear more vibrant, polished, and visually striking. The transparent or semi-transparent edges blend naturally with the application surface, while the raised printed areas produce a premium gel-like texture that feels smooth and slightly flexible to the touch. This distinctive effect is especially suitable for garments, bags, footwear, phone cases, glassware, stainless-steel tumblers, promotional products, and outdoor accessories, helping brands achieve a modern, playful, and high-value decorative finish.



A:UV-ink receptive layer

B: Thermoplastic Polyurethane (TPU)

C: Heat-activated TPU adhesive

D: PET release film

1. Basic Information

a. Product Name: Jelly Printable UV TPU DTF FILM

b. Product Code: SL-UTJP20/SL-UTJP35

c. Material: Thermoplastic Polyurethane, TPU

d. Color: Transparent

e. Surface: Glossy

f: Thickness: 0.2mm/0.35mm

g: Roll Size: 30.5cm/61cm x 25m/50m

h: Release Liner: PET

i: Application: UV flexible ink printing, die-cutting and heat transfer



2. Key Specification

UV Jelly Film creates a "jelly-like" effect characterized by a crystalline, rounded, and plump appearance with a distinct three-dimensional quality. Its surface typically features high gloss, producing sharp, reflective highlights from various angles that make the design appear as if coated in a layer of transparent gel or crystal resin.

3. Print Compatibility

a. Recommended Ink: Flexible UV Ink

b. Printing Method: UV flatbed printer / UV roll-to-roll printer

c. Ink Adhesion: Excellent

d. Color Reproduction: Vivid and stable

e: White Ink Compatibility: Applicable

f: Varnish Compatibility: Applicable

g: Curing Requirement: According to ink manufacturer's recommended settings



4. Die-cutting performance

a. Suitable for contour cutting and die-cutting

b. Good edge definition

c. No obvious edge lifting

d. Compatible with common cutting plotters

e. Smooth waste discharge

5. Recommended parameters

Parameter	Recommended Range
Heat Press Temperature	150-160 °C
Pressing Time	10-15S

6. Adhesion and Durability Performance

Test Item	Test Condition	Result
Peel Strength	After heat transfer	N/25 mm
Washing Resistance	40°C × 40 cycles	No peeling / No cracking
Bending Test	Repeated folding	No visible cracking
Abrasion Test	Specified cycles	No significant damage
Yellowing Resistance	oven test	Grade 3.5

7. Application

Cotton,Polyester, blends,Nylon,Synthetic textile materials;Mugs, Tumblers, Phone Case,Glass etc

8. Storage and Shelf-life

a. Storage Temperature：0–40°C

b. Relative Humidity：40–70% RH

c. Storage Method：Keep sealed in original packaging

d. Avoid：Direct sunlight, heat, moisture, dust and pressure

e. Shelf Life：12 months



Note: The information contained in this technical data sheet are based on our present experience and knowledge. In consideration of the various factors which can effect the results achieved in the final application, Saillage doesn't take any responsibility for an unproper use of the product by the user which can violate or damage rights of third parties.