



DTF Transfer Guide – JD DTF Adhesive Powder

1. Introduction

JD DTF Adhesive Powder is a thermoplastic polyurethane (TPU) powder designed for Direct-to-Film (DTF) printing. It bonds the printed ink layer on PET film to fabrics during heat pressing, ensuring strong adhesion, wash resistance, and flexibility. This guide provides detailed instructions for using JD DTF Powder effectively in the transfer process.

2. Required Materials

- JD DTF PET Film (hot, warm, or cold peel)
- JD DTF Ink (CMYK + White)
- JD DTF Adhesive Powder (Fine / Medium / Coarse)
- Heat press machine (flat or pneumatic)
- Oven or curing unit / automatic powder shaker

3. Step-by-Step Transfer Process

Step 1 – Printing

- Print design on JD PET Film using CMYK first, then white underbase.
- Ensure ink load is balanced to avoid over-inking.

Step 2 – Powder Application

- Apply JD TPU adhesive powder while ink is wet.
- Shake off excess powder evenly (manual or automated).

Step 3 – Powder Curing

- Oven/tunnel dryer: 110–120°C for 120–180s.
- Inline shaker: 150–160°C for 60–90s.
- Ensure smooth melting, no yellowing.

Step 4 – Heat Press Transfer

- Place cured film on garment.
- Press at 150–165°C for 8–15s with medium to firm pressure (0.4–0.6 MPa).

Step 5 – Peel

- Hot Peel: peel immediately after pressing.
- Warm Peel: wait 5–10s, then peel.



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- Cold Peel: allow to cool fully, then peel.

Step 6 – Second Press (Recommended)

- Press again at 150–155°C for 5–10s using parchment/Teflon.
- Enhances wash durability and hand feel.

4. Best Practices

- Pre-press garments for 3–5s to remove moisture.
- Keep environment at 20–28°C, 40–60% RH.
- Store powder in sealed, dry containers.
- Test settings on small batch before mass production.

5. Safety & Handling

- Non-toxic TPU powder but avoid inhalation of dust.
- Wear gloves and masks during handling.
- Ensure ventilation during curing.
- Dispose according to local environmental regulations.

6. Contact Us

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