



Product Datasheet – JD DTF PET Film

1. Product Overview

JD DTF (Direct-to-Film) PET Film is a heat-resistant polyester transfer film with a specially engineered coating for DTF pigment inks. It delivers clean powder adhesion, reliable release, and crisp details for garment decoration on cotton, blends, polyester and more.

2. Specifications

Item	Options	Notes	Typical Use
Thickness	75 μ m / 80 μ m	$\pm$ 5 μ m tolerance	General (75 μ m)
Peel Type	Hot Peel / Warm Peel / Cold Peel/Free Peel	Select per workflow	Hot = fast, Cold = maximum detail
Finish	Matte / Glossy	Low-glare, anti-static surface	Sharp details, stable feeding
Coating	Single-matte / glossy; Double-matte/glossy	Backside anti-slip (double)	Improved stacking & feeding
Sizes	Rolls: 30/60/120 cm; Sheets: A3/A4	Custom widths available	For desktop & industrial DTF
Core	2" / 3"	Universal core options	Fits most DTF machines
Ink	DTF Pigment Inks (CMYK+W)	White underbase required	High-opacity white, vivid color
Compatibility	DTF printers using piezo heads	Epson i3200, 4720, XP600, etc.	Desktop to wide-format

3. Key Features

- Clean release and consistent peel across batches
- Uniform adhesive powder pick-up with minimal pinholes
- Anti-static, anti-ghosting surface for crisp micro-text
- Excellent wash durability and stretch resistance
- Stable feeding on both desktop and industrial DTF systems
- Low-smoke, low-odor performance when properly cured

4. Recommended Process Settings

Printing

- Print order: CMYK → White (high-opacity underbase)



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- Passes/ink load: Adjust to artwork; avoid over-inking
- Environment: 20–28°C, 40–60% RH

Adhesive Powder Curing

- Oven/tunnel: 110–120°C for 120–180 s
- Shaker/inline: 150–160°C for 60–90 s
- Goal: Even melt, smooth granule edges, no yellowing

Heat Press Parameters (Guide)

- Hot Peel film: 150–160°C for 8–12 s, peel immediately
- Warm Peel film: 150–160°C for 10–15 s, wait 5–10 s then peel
- Cold Peel film: 150–165°C for 15–20 s, cool to room temp, peel
- Second press: 150–155°C for 5–10 s with parchment or Teflon for best hand & durability

5. Performance & Testing

- Wash fastness: Designed for strong durability when properly cured and pressed
- Stretch & crack resistance: Flexible film supports everyday wear
- Color stability: Compatible with ICC-managed workflows for repeatable color
- Substrate range: Cotton, cotton/poly blends, polyester, nylon* (*test recommended)

6. Storage & Handling

- Store flat or upright at 10–30°C and 40–60% RH
- Keep sealed in original bag/box; avoid dust and direct sunlight
- Acclimate rolls to print room for 24 h before use
- Use clean, lint-free environment to minimize defects
- Shelf life: 12 months in recommended conditions

7. Quick Troubleshooting

Issue	Probable Cause	Suggested Fix
Weak adhesion	Insufficient powder or under-cure	Increase powder coverage / extend cure time
Poor release	Press temp/time too low; peel timing wrong	Raise temp/time; follow peel type guidance
Powder grains visible	Uneven powdering or over-cure	Ensure even powder; reduce temperature/time
Ink bleeding	Excess ink load or high humidity	Reduce passes/ink; control room RH 40–60%
Cracking after wash	No second press or under-press	Add second press; verify pressure/temperature



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8. Notes & Compliance

- For best results, pair JD DTF PET Film with JD DTF inks and high-quality TPU adhesive powder
- Always run a small production test when switching film batches or changing settings
- Safety: Avoid inhaling powder dust; use adequate ventilation during curing and pressing

9. Contact

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