HOT MELT ADHESIVE

PES Hot Melt Film

UF-251W

UF-251W is a white opaque thermoplastic copolyester (PES) hot melt adhesive film supplied on a release liner, cast from copolyester resin. Dry and tack-free at room temperature, it melts at 105–125 °C and forms a soft, thin bond that sets hard on cooling — and its solid white body does a second job while it bonds: blocking dye migration out of the fabric underneath.

KEY FEATURES

- White opaque film with anti-sublimation protection — a dye-blocking formulation and full opacity stop sublimation dyes from migrating into white or light-coloured overlays during pressing and service
- Wash and dry-clean resistance — no delamination and no blistering after 50 domestic wash cycles at 40 °C, and the bond holds through dry cleaning as well
- Excellent adhesion to polyester and blends — copolyester chemistry is compatible with PET fibres, so bonding is strong without surface treatment
- Highest heat resistance in our film range — melting point 105–125 °C keeps laminates stable in curtains, wall coverings and automotive interiors
- Free-flowing at pressing temperature — melt flow rate of 25–35 g/10 min (160 °C) lets the film penetrate fabric structures for mechanical anchorage
- Made to your dimensions — thickness 0.05–0.30 mm, width slitted from 20 to 1520 mm, rolls of 100 m or 200 m

TECHNICAL SPECIFICATIONS

Property	Value
Main component	Copolyester (PES)
Appearance	White opaque film
Anti-sublimation	Dye migration barrier for sublimation-printed and deeply dyed polyester
Thickness	0.05-0.30 mm (standard 0.05 / 0.08 / 0.10 / 0.12 / 0.15 mm, customizable)
Width	20-1520 mm, slitting on request
Roll length	100 m / 200 m, customizable
Density	1.25-1.30 g/cm³ (23 °C)
Melting temperature	105-125 °C (DSC)
Melt flow rate	25-35 g/10 min (160 °C, 2.16 kg)
Wash resistance	No delamination, no blistering (40 °C, 50 home laundering cycles)
Packaging	PE-sealed rolls in cartons or on pallets

RECOMMENDED PROCESSING CONDITIONS

Parameter	Value
Pressing temperature	120-150 °C (adjust to fabric and film thickness; film must fully melt and penetrate)
Pressure	0.2-0.4 MPa (flat press or continuous laminator)
Pressing time	10-20 s (adjust to fabric thickness and thermal conductivity)
Cooling	Natural cooling to room temperature; avoid moving the laminate before it sets

TYPICAL APPLICATIONS

- Sublimation-printed sportswear and fashion — laminating white logos, panels and reinforcements over printed polyester without the dye bleed that stains clear-film bonds
- Footwear — white overlays and heat-cut parts bonded to sublimation-printed mesh uppers, keeping edges and logos clean
- Home textiles — white and light-coloured wall coverings, curtains and furnishing fabrics laminated over deeply dyed base cloth
- Apparel — interlinings and facings on intensely coloured or printed fabrics, where back-staining would show through light outer layers
- Bags, luggage and automotive interiors — trim and fabric-to-substrate bonding that sees heat in service, with printed substrates underneath

PACKAGING AND STORAGE

- Supplied in standard export packaging; roll width, length and liner options confirmed on order.
- Store in a dry, ventilated place below 30 °C, away from direct sunlight, moisture and ignition sources.
- Shelf life: 12 months in unopened original packaging. Reseal opened rolls and use them within the period stated above.

> **Handling note:** Hot melt adhesives are applied molten. Use a suitable dispenser or laminator with accurate temperature control and keep hands clear of the melt and heated surfaces.

The values above are typical test results obtained under standard laboratory conditions and are provided for reference in product selection. They do not constitute a specification or warranty of performance in a particular application, because bonding results depend on substrate, equipment, line speed and ambient conditions. We recommend a trial run on your own production line before commercial use. Shanghai United Industry Co., Ltd reserves the right to revise this document without notice.

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