HOT MELT ADHESIVE

PES Hot Melt Powder

UE-3105

UE-3105 is a copolyester (PES) hot melt adhesive in powder form, ground from copolyester resin and supplied in three particle-size windows — fine powder for paste printing, mid-cut for dot coating and a coarser grade for scatter coating. It starts to melt at 95 °C and is pressed at 125-145 °C, curing to a flexible bond that resists washing and dry cleaning.

KEY FEATURES

- Copolyester chemistry — compatible with PET fibres, so adhesion to polyester and polyester blends is strong without primers or surface treatment
- Excellent wash resistance — rated excellent after washing at 60 °C, with no delamination or bubbling along the bond line
- Solvent resistance — the cured bond holds through dry cleaning and the finishing solvents used on garments
- Low activation temperature — melting begins at 95 °C and pressing runs at 125-145 °C, leaving headroom for heat-sensitive fabrics that cannot take a polyamide press
- Three particle-size windows — fine, mid-cut and coarse grades matched to paste, dot and scatter coating, so one chemistry covers three production lines
- Custom particle size — cut to your specification on request when your line needs a window outside the standard ranges

TECHNICAL SPECIFICATIONS

Property	Value
Main component	Copolyester (PES)
Appearance	White or light yellow powder
Melting range	95-125 °C (DSC)
Melt flow index	28-38 g/10 min (160 °C, 2.16 kg)
Wash resistance	Excellent at 60 °C
Packaging	20 kg kraft paper bags

RECOMMENDED PROCESSING CONDITIONS

Parameter	Value
Temperature	125-145 °C
Pressure	1.5-2.5 bar
Time	10-15 s

TYPICAL APPLICATIONS

- Garment interlining — fusing shirt collars and cuffs, front panels and waistbands, where the interlining must not bubble after washing
- Heat transfer printing — dot-printed graphics and labels onto sportswear, fashion garments and workwear
- Technical textiles — laminating filter media, reflective materials and coated fabrics
- Automotive interiors — fabric-to-foam and trim lamination where the bond sees heat in service
- Shoe materials — bonding linings and reinforcements that need dry-clean and solvent resistance

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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