HOT MELT ADHESIVE

EVA Hot Melt Film for Footwear & Lamination

UF-1200

UF-1200 is a translucent milky-white ethylene-vinyl acetate (EVA) hot melt adhesive film for low-temperature bonding of shoe materials, fabrics and foams. With a softening range of just 70–80 °C and activation at 110–140 °C, it flows quickly under a flat press or roller laminator, wets leather, synthetic leather, textiles and EVA foam evenly, and sets into a soft, flexible bond that keeps the hand feel of the laminate unchanged.

KEY FEATURES

- Low activation temperature — melts at 70–80 °C (DSC) and bonds at 110–140 °C, gentle enough for heat-sensitive EVA foam, PU leather and technical textiles
- Soft, comfortable hand feel — the EVA matrix stays flexible after bonding, ideal for insoles, uppers and apparel laminates that sit against the body
- Broad substrate compatibility — strong adhesion to genuine leather, PU/PVC leather, cotton and polyester fabrics, EVA foam, non-wovens, paper and wood
- Odourless and environmentally friendly — 100% solids, solvent-free formulation; no VOC concerns for workers or finished products
- Uniform, controlled bond line — cast film with even gauge from 0.03 mm upward; no glue penetration, no squeeze-out, no mess on rollers
- Fast processing — 5–15 s dwell under 0.3–0.6 MPa keeps lamination lines productive
- Made to your dimensions — thickness 0.03–0.30 mm, width 1000–1500 mm, rolls of 100–400 yards, with or without release liner

TECHNICAL SPECIFICATIONS

Property	Value
Main component	Ethylene-vinyl acetate copolymer (EVA)
Appearance	Translucent milky-white film
Release liner	Glassine release paper or linerless, on request
Thickness	0.03-0.30 mm (standard 0.05 / 0.08 / 0.10 / 0.12 / 0.15 mm, customizable)
Width	1000-1500 mm, slitting on request
Roll length	100-400 yards, customizable
Density	0.93 ± 0.02 g/cm³
Melting point	70-80 °C (DSC)
Melt flow index	200 ± 30 g/10 min (ASTM D1238)
Peel strength (cured)	≥6 N/25 mm (leather to EVA foam, 180° peel)
Heat resistance of bond	60-80 °C continuous service
Shelf life	24 months stored cool and dry, sealed against moisture

Property	Value
Packaging	Rolls in moisture-proof wrap, 1-2 rolls per carton

RECOMMENDED PROCESSING CONDITIONS

Parameter	Value
Flat press	110-140 °C, 5-15 s, 0.3-0.6 MPa
Roller laminator	120-160 °C roller temperature, 8-25 s dwell, 0.3-0.6 MPa
Notes	Temperature, pressure and dwell interact — optimise on your own substrates for maximum bond strength

TYPICAL APPLICATIONS

Footwear — EVA foam insole lamination, shoe upper setting and stiffening, tongue and collar bonding, sports shoe components

Fabric lamination — fabric-to-fabric and fabric-to-foam laminates for apparel, seamless garments and textile accessories

Bags, luggage and leather goods — bonding of PU/PVC leather, linings and reinforcing panels

Automotive interiors and mats — laminating carpets, mats and trim materials where low odour is required

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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