

Polymer Add (Thailand) Co.,Ltd.

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APPLICATION PROFILE

EVA 28% VA POWDER FOR DIRECT THERMAL BONDING

PRODUCT FORM AND PURPOSE

EVA 28% VA POWDER is thermoplastic ethylene-vinyl acetate copolymer containing approximately 28% vinyl acetate by weight. It is supplied in powder form for direct application onto substrates or between layers before thermal bonding.

Two particle-size options are covered:

POWDER GRADE	PARTICLE-SIZE TARGET	PRINCIPAL PURPOSE
Fine powder	D100 limit selected within 100–150 µm	Fine adhesive distribution for textile coating, interlining and flexible lamination
Coarse powder	D100 approximately 1,000 µm (1 mm)	Powder scattering for heavier textile, backing and laminate constructions

These values describe the maximum particle-size targets. They do not mean that all particles fall within 100–150 µm or are approximately 1 mm. The complete particle-size distribution must suit the application equipment.

The applications covered in this profile use EVA directly as a powder before bonding. The powder is scattered, coated or incorporated into a suitable coating paste, then activated by heat at the bonding interface. It softens or melts in place and forms the adhesive bond as it cools.

SPECIFIC COMMERCIAL APPLICATION

The principal application is a **powder-applied, heat-activated adhesive** for textiles, nonwovens, foam, leather and backing constructions.

The powder form allows adhesive to be distributed across a surface or placed at selected bonding points before the layers are joined. This makes particle size relevant to coating uniformity, adhesive placement and compatibility with the application equipment.

The fine grade targets thin, closely distributed adhesive deposits. The coarse grade targets heavier constructions that can accommodate larger particles and provide sufficient heat and contact time for complete fusion.

These applications involve direct powder deposition followed by thermal bonding. General EVA applications involving extrusion into films, sheets, foams or moulded products are outside this profile.

WHY THE POWDERED FORM IS USED

EVA powder can be metered onto a moving fabric or nonwoven web, scattered between layers or deposited through compatible patterned coating equipment.

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The reason to select powder is its ability to distribute adhesive before heating. Conventional resin pellets cannot produce the same fine deposits through these powder application methods.

At a comparable coating weight, smaller particles can provide more individual deposition points and help reduce coarse adhesive spots. This is particularly relevant to lightweight fabrics, thin laminates and visible surfaces.

A coarser powder can be evaluated for heavier backing and laminate constructions where fine patterned deposition is unnecessary. However, larger particles must fuse completely during the available bonding cycle to avoid uneven adhesion or hard nodules.

Particle size alone does not establish adhesive performance. Resin melt flow, coating weight, substrate compatibility and bonding conditions must be evaluated together.

TARGET APPLICATION AREAS

Fine grade — D100 limit 100–150 µm

APPLICATION	SPECIFIC USE OF EVA 28% VA POWDER
Fine textile and nonwoven lamination	Powder is scattered directly between lightweight fabric or nonwoven layers before thermal bonding. Fine deposition supports distributed adhesive coverage while limiting coarse adhesive spots.
Fusible interlining coating	Powder is applied to an interlining through a compatible scatter or powder-dot coating process. The coated interlining is subsequently fused to the outer fabric using heat and pressure. Particle distribution must match the coating openings and required dot size.
Textile heat-transfer bonding	Powder is deposited onto a compatible transfer coating or incorporated into a suitable transfer paste. Heating activates the EVA at the interface between the transfer and fabric. Particle size must suit the printed detail and coating method.
Flocking and metallic-transfer decoration	Powder is incorporated into a compatible heat-activated coating or paste used to attach flock fibres or transfer a decorative metallic finish. Coating consistency, particle size and adhesion require evaluation for the selected system.
Shoe lining and flexible textile lamination	Powder is distributed between lining fabric and suitable leather, foam or textile layers before heat pressing. Qualification focuses on peel strength, flexibility and avoidance of visible adhesive spots.

The fine grade is a starting point for applications requiring controlled deposition. Very fine paste-dot systems or detailed transfer patterns may require a smaller particle-size cut.

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Coarse grade — D100 approximately 1,000 µm

APPLICATION	SPECIFIC USE OF EVA 28% VA POWDER
Carpet backing and heavy floor-mat lamination	Powder is scattered onto the carpet back or between suitable heavy backing layers before thermal fusion. The powder acts as the adhesive phase at the backing interface. The coarse fraction must melt sufficiently to avoid hard particles and uneven bonding.
Thick nonwoven and foam lamination	Powder is placed between thicker nonwoven and foam layers before thermal bonding, for example in suitable mattress or cushioning constructions. Interface heating and contact must be sufficient to activate the larger particles throughout the bond area.

The approximately 1 mm grade is a **candidate for qualification in coarse powder-scattering systems**. Some constructions may require a tighter upper-size limit. Suitability depends particularly on the proportion of particles close to 1 mm, the coating weight and the available heating cycle.

DISCLAIMER

This Application Profile is provided for general technical and commercial guidance only. Product suitability, dosage, processing conditions and final performance depend on the customer's formulation, equipment and intended application. Customers must conduct their own trials and confirm compatibility, regulatory compliance, safety and finished product performance before commercial use. The information provided does not constitute a product-performance guarantee or specification unless separately agreed in writing by Polymer Add (Thailand) Co., Ltd.

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