

Polymer Add (Thailand) Co.,Ltd.

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Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

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TECHNICAL DATA SHEET

Product Name - HMASUL-BLEND H45

Micronized Additive Blend for EVA-Based Hot-Melt Adhesives

1. Product Description

HMASUL-BLEND H45 is a pre-formulated micronized powder blend designed to improve viscosity control, flow characteristics, and dimensional stability in EVA-based hot-melt adhesive (HMA) systems. It replaces a portion of the resin with thermally stable, flow-modifying fillers and additives, enabling better processability without plasticization.

2. Typical Composition

Ingredient	% w/w	Function
Micronized Sodium Sulfate (Stearic Acid Coated)	45%	Flow enhancer, resin replacement
EVA Resin (Micronized, 18% VA)	30%	Compatibility with HMA base
Zinc Stearate (Micronized)	5%	Lubricant, processing aid
AO-1010	0.5%	Antioxidant – processing stability
AO-168 (Optional)	0.5%	Synergistic antioxidant
MAH-Grafted EVA (OE-850, micronized)	4%	Coupling agent
Silicone Additive or MB (Optional)	1%	Anti-blocking / improved flow
PE Carrier Resin or Filler (Micronized)	14%	Functional filler / dispersion control

3. Physical Properties

Parameter	Typical Value
Appearance	Free-flowing white powder
Bulk Density	0.45 – 0.65 g/cm ³
Particle Size (D90)	< 45 µm
Moisture Content	< 0.5%
Odor	Slight, neutral
Melting Range	85 – 120 °C (composite blend)

4. Application Guidelines

- Recommended dosage in EVA-based HMA: **3–10%** by weight
- Compatible with **melt kneading, twin-screw, or batch mixers**
- Pre-drying not required under standard storage conditions

5. Packaging

- 10 kg and 25 kg HDPE lined paper bags or fiber drums
- Custom packaging available on request

6. Storage & Handling

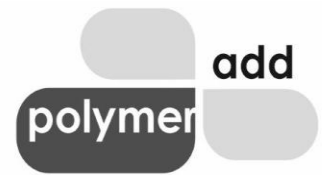
- Store in a **cool, dry, and shaded** area

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- Avoid direct exposure to sunlight or high humidity
- Ensure **adequate ventilation** when mixing or handling powder

7. Shelf Life

- 12 months from date of manufacture in sealed condition

This preblend is offered as a dry additive system designed for technical use in polymer processing. The user is responsible for determining the appropriate dosage, processing parameters, and compatibility with their specific polymer and equipment. Polymer Add Thailand shall not be liable for any consequential or incidental damages arising from incorrect use or unverified end-application performance

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