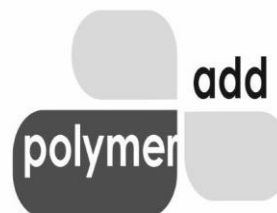


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TECHNICAL DATA SHEET

FOAMMATCH MICROBLEND F85

Micronized Additive Blend for Foam Masterbatches

Product Description

FoamMatch MicroBlend F85 is a functional micronized powder additive blend tailored for foam masterbatches in polyolefin systems (PE/PP). It improves the dispersion of chemical blowing agents, enhances melt strength, controls cell size, and reduces die build-up during foaming. The pre-blend is compatible with exothermic and endothermic foaming systems.

Micronized Ingredients

Chemical Name	Function	CAS Number	Composition %
Micronized Polyethylene Wax (D100 < 20 µm)	Dispersion aid, melt strength enhancer	9002-88-4	35.00%
Zinc Stearate (Micronized)	Blowing agent activator, lubricant	557-05-1	20.00%
Micronized Talc (High Purity, D50 < 5 µm)	Nucleating agent for uniform cell formation	14807-96-6	15.00%
Glycerol Monostearate (Micronized, GMS 90%)	Cell wall stabilizer, dispersion enhancer	31566-31-1	10.00%
Hydrophobic Fumed Silica (R972 Equivalent)	Anti-caking, flow improvement	68909-20-6	5.00%
Synthetic Amorphous Silica	Flow modifier, anti-agglomeration	112926-00-8	10.00%
Sodium Bicarbonate (Micronized) – optional version	Endothermic blowing agent (optional version only)	144-55-8	See Note
		TOTAL	100.00%

Note: Sodium Bicarbonate can be included in a modified version (F85-E) at 10–25% for endothermic systems.

Typical Properties

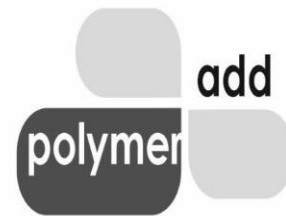
Property	Value / Description
Appearance	Fine white to off-white powder
Odour	Neutral
Particle Size (D100)	< 20 microns
Bulk Density	~0.36–0.44 g/cm ³
Melting Range	80–140°C (wax + GMS influence)
Compatibility	PE, PP, EVA foam compounds
Moisture Content	< 0.5%

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Applications

- Foam Masterbatches for Sheet Extrusion, Injection Molding, and Blown Film
- Suitable for use with chemical blowing agents such as Azodicarbonamide (ADC) or Sodium Bicarbonate
- Improves foam uniformity, reduces surface defects, and increases foam expansion ratio

Processing Guidance

- Dry blend with carrier resin and blowing agent before extrusion
- Can be used with both exothermic and endothermic foaming agents
- Recommended dosage: 1.5–4.0% in total masterbatch formulation depending on blowing system

Packing Instructions

Packing Type	Description
Bag Type	Multilayer Paper Bag with Inner PE Liner
Net Weight	20 Kg per bag
Palletization	40 Bags per Pallet (800 Kg net)
Optional	Sealed Drum or Vacuum Pack for export
Labeling	Product Name, Code, Batch No., Mfg. Date
Shelf Life	24 months if sealed and stored properly
Storage	Store in cool, dry conditions, away from humidity

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