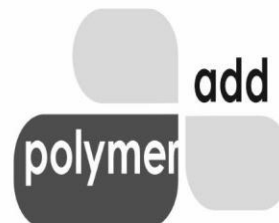


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PRODUCT NAME:

FOAMSUL-BLEND FX4030

(Micronized Functional Additive Blend for EPE/XPE Foamed Plastics)

Description

FOAMSUL-BLEND FX4030 is a **dry-blended, micronized multi-functional additive system** developed for **polyethylene-based foamed plastics**, including **EPE and XPE**. It combines **high-purity coated Sodium Sulfate** with optimized levels of flow enhancers, antioxidants, and dispersing aids to support **fine cell nucleation, resin savings, and thermal stability** in foam extrusion applications.

Composition

Component	% w/w	CAS No.	Function
Sodium Sulphate (Micronized, coated)	70.0%	7757-82-6	Nucleating agent / Filler
EVA Resin (Micronized, 18% VA)	8.0%	24937-78-8	Binder / Dispersing polymer
Zinc Stearate (Micronized)	2.0%	557-05-1	Lubricant / Anti-static aid
Micronized Silica (Amorphous)	2.0%	112926-00-8	Anti-block, surface texture
MAH-Grafted EVA (Micronized, OE-850)	2.0%	Proprietary	Coupling agent / Compatibility aid
AO-1010 (Micronized)	0.5%	6683-19-8	Antioxidant, thermal stability enhancer
Stearic Acid (Surface coating)	1.5%	57-11-4	Anti-agglomeration / Flow aid
Inert Polymer Base (optional PE filler)	14.0%	---	Carrier/filler support (optional variant)

Key Features

- Pre-micronized, flowable additive powder
- Enhances foam **cell uniformity and smooth texture**
- Allows **partial replacement of base resin**
- Compatible with **EPE and crosslinked PE (XPE)**
- Improves **dispersion and melt flow**
- Shelf-stable and non-hygroscopic

Typical Applications

End Use	Details
EPE Foam Rolls / Sheets	Cushioning, packaging, insulation
XPE Sheets / Boards	Footwear, construction, automotive
XLPE Wire / Cable Insulation	Filler + stability support

Recommended Usage

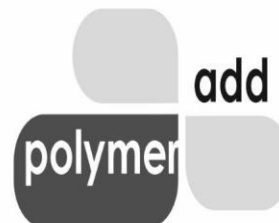
Application Type	Dosage (% in compound)	Notes
EPE Foam Extrusion	3–8%	Use with azodicarbonamide or talc if needed
XPE Foam Extrusion	5–12%	Improves melt strength & filler dispersion
XLPE Compound Filling	4–10%	Use with PE carrier + compatibilizer

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Physical & Chemical Properties

Property	Value / Description
Appearance	White to off-white powder
Particle Size (D100)	< 50 μm (fully micronized)
Bulk Density	0.55–0.70 g/cm ³
pH (5% solution)	6.5–8.0
Melting Point (Polymer blend)	80–130 °C (EVA/PE base)
Moisture Content	< 0.5%
Halogen Content	None

Packaging & Storage

- Standard packaging: 25 kg PE-lined paper bags
- Store in a cool, dry, ventilated area
- Protect from moisture and direct sunlight
- Shelf life: **12 months** in sealed packaging

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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