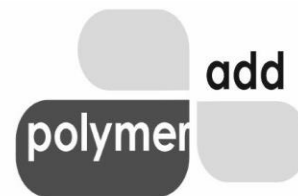


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Technical Data Sheet

PRODUCT NAME:

PE-SULBLEND IM6510

(High Filler Compatibilizer Blend for Injection Molding & Compounding)

Description

PE-SULBLEND IM6510 is a high-filler, MAH-grafted polyethylene-based functional additive system in micronized powder form. It is designed to compatibilize and disperse mineral fillers in polymer matrices (PP, PE, PA, PC) for injection molding and flame-retardant applications. Can be offered in granule or powder form.

Composition

Component	% w/w	CAS No.	Function
Stearic-Coated Micronized Sodium Sulfate	65.0%	7757-82-6	Cost-reducing functional filler
MAH-Grafted Polyethylene (OE-825/850/950)	10.0%	26221-73-8	Compatibilizer / Coupling agent
LLDPE/HDPE (Granular, High MFI)	24.0%	9002-88-4	Base resin / Carrier
AO-1010 (Micronized)	0.5%	6683-19-8	Primary antioxidant
AO-168 (Micronized)	0.3%	31570-04-4	Secondary antioxidant (phosphite type)
Zinc Stearate (Micronized)	0.2%	557-05-1	Lubricant, dispersion and processing aid

Key Benefits

- High filler loading (65%) with excellent dispersion
- Improves interfacial adhesion in filled PP, PE, PA6, and PC blends
- Improves flow and mechanical strength in FR compounds (e.g., with ATH)
- Cost-effective replacement for traditional compatibilizers
- Can be used in both powder blending and melt compounding

Applications

Sector	Application
Injection Molding Compounds	Fan blades, appliance housings, furniture
Flame Retardant Compounds	Cable sheathing, junction boxes, conduits
Mineral-Filled PP/PE	Structural parts, auto interior, tool casings
Engineering Resin Compatibilizer	PC+PE, PA6+PP, mineral-filled blends

Physical Form

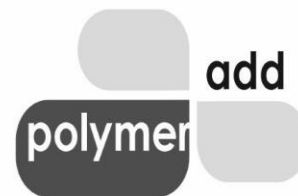
- **Micronized powder** (default)
- **Optional granules** (on request)

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Processing Guidance

Parameter	Guidance
Processing temp (extrusion)	170–240 °C
Screw speed	80–180 rpm
Blend ratio in compound	5–20% depending on mineral content and application
Drying requirement	Not required if stored properly

Packaging & Storage

- 25 kg moisture-protected multiwall bags or PE-lined woven sacks
- Store below 35 °C, RH <55%
- Shelf life: 6 months in dry, sealed condition
- Do not stack >1.5 meters

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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