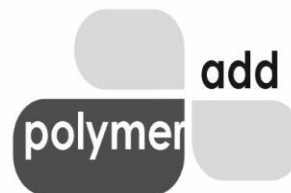


Polymer Add (Thailand) Co.,Ltd.

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TECHNICAL DATA SHEET

Product Name - MASTERSUL-BLEND M4030

Micronized Additive Blend for Masterbatch Compounding

1. Product Description

MASTERSUL-BLEND M4030 is a dry, micronized filler and processing aid system designed specifically for use in **PE- or PP-based masterbatches**, including white, filler, anti-block, and antibac blends. The product is optimized to reduce formulation cost, improve melt flow, and ensure better dispersion of functional additives and pigments.

2. Typical Composition

Ingredient	% w/w	Function
Micronized Sodium Sulfate (Stearic Coated)	30%	Filler, TiO ₂ diluent, flow modifier
Carrier Resin (PE/PP, MFI 5–20)	60%	Matrix polymer for masterbatch integration
Zinc Stearate (Micronized)	3%	Lubricant and thermal stabilizer
Oxidized PE Wax (Micronized)	4%	Dispersion aid and external lubricant
AO-1010 + AO-168 Blend	0.5%	Antioxidant system for thermal stability
Optional Flow Agent (Silicone-based)	2.5%	Anti-block / enhanced dispersion

3. Physical Properties

Parameter	Typical Value
Appearance	Fine off-white powder
Particle Size (D90)	< 35 µm
Bulk Density	0.50 – 0.70 g/cm ³
Melting Range	85–130 °C
Odor	Neutral
Compatibility	PE, PP, EVA carriers

4. Application Guidelines

Masterbatch Type	Recommended Use
Filler Masterbatch (PE/PP)	10–40% of masterbatch formulation
White Masterbatch (TiO ₂ MB)	5–20% as diluent + dispersant
Anti-block Masterbatch	10–25% combined with silica/beads
Antibac/Active MB	10–30% to control viscosity + load

- Compatible with **twin-screw extruders**, internal mixers, and kneaders
- Dry blending or premixing with resin before extrusion recommended
- No pre-drying required under standard storage conditions

5. Key Benefits

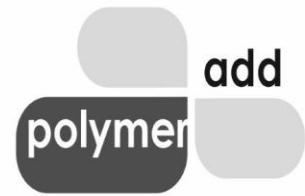
- Enables **cost-effective TiO₂ dilution**

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- Enhances **flow and pigment dispersion**
- **Micronized for consistency** and low abrasiveness
- Surface treatment prevents **lumping and caking**

6. Packaging

- 20 kg or 25 kg HDPE-lined kraft bags
- Jumbo bags (500–1000 kg) available upon request

7. Storage & Shelf Life

- Store in dry, ventilated conditions
- Avoid contact with moisture and excessive heat
- Shelf life: **12 months** in unopened 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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