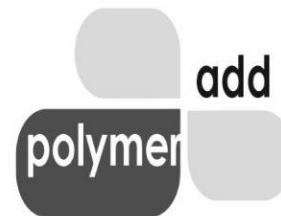


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TECHNICAL DATA SHEET

COLOUR-MB MICROBLEND P20

Micronized Additive Blend for Colour Masterbatch Applications

Product Description

Color-MB MicroBlend P20 is a high-performance micronized additive blend designed to improve pigment dispersion, flow properties, and long-term stability in polyolefin-based color masterbatches.

Optimized for PE, PP, PS, and EVA carriers, it supports high pigment loads, reduces screw torque, and enhances the dispersion of organic and inorganic colorants including TiO₂, carbon black, and phthalocyanine pigments.

Key Features and Benefits

- Promotes excellent pigment wetting and dispersion
- Reduces melt viscosity and improves energy efficiency
- Prevents agglomeration and pigment re-flocculation
- Improves flowability and anti-blocking behavior
- Enhances thermal stability during compounding

Typical Composition

Component	Function	% w/w	CAS Number
Micronized PE Wax	Pigment dispersant, melt flow enhancer	38%	9002-88-4
Synthetic Amorphous Silica	Anti-caking, powder flow control	12%	112926-00-8
Zinc Stearate (Micronized)	Lubricant, pigment wetting agent	18%	557-05-1
Glycerol Monostearate (GMS 90%)	Internal lubricant, anti-static	10%	31566-31-1
Dispersible Fumed Silica	Anti-settling, rheology control	7%	112945-52-5
Polyethylene Oxide (High MW)	Melt control modifier	5%	25322-68-3
Silicone-Treated Silica	Anti-blocking, surface slip	5%	Proprietary
Antioxidant AO-1010 (Micronized)	Processing stabilizer	5%	6683-19-8
TOTAL		100%	

Typical Physical Properties

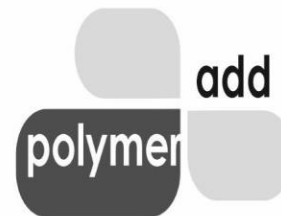
Property	Value
Appearance	White to off-white micronized powder
Bulk Density	0.30 – 0.40 g/cm ³
Particle Size (D100)	< 20 µm
Particle Size (D50)	5 – 9 µm
Melting Point Range	95 – 135 °C (blend basis)
Dispersibility	Excellent in polyolefin melt systems
Odor	Neutral to faint waxy

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Recommended Applications

- PE, PP, PS-based colour masterbatches (organic/inorganic pigments)
- High pigment load masterbatches for film, molding, fiber
- Black, white, and coloured MB formulations containing TiO₂ or carbon black
- EVA and polyolefin masterbatches requiring improved melt flow

Recommended Dosage

- 1.0 – 4.0% based on total masterbatch formulation weight
- Can be dry blended with pigments or pre-dispersed into carrier resin

Packaging and Storage

Item	Details
Packaging	10–20 kg kraft bag with PE liner or 25 kg HDPE drum
Shelf Life	12 months in sealed packaging under dry storage
Storage Conditions	Store in cool, dry area; avoid high humidity and direct sunlight

Regulatory Compliance

- All ingredients meet industrial standards for color masterbatch applications
- AO-1010 content provides additional stabilization even if base resin contains antioxidants
- Suitable for non-food contact and indirect food packaging applications

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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