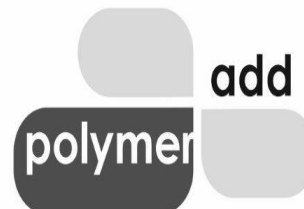


Polymer Add (Thailand) Co.,Ltd.

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TECHNICAL DATA SHEET

POLYETHGUARD MICROBLEND E65

Micronized Additive Blend for Polyethylene Film, Sheet & Injection Molding

Product Description

POLYETHGUARD MICROBLEND E65 is a high-performance micronized powder additive system designed for PE applications (LDPE, LLDPE, HDPE). It improves stiffness, dimensional stability, barrier properties, and surface characteristics. The inclusion of micronized polyethylene wax enhances anti-blocking and surface slip while maintaining processing compatibility and thermal stability.

Micronized Ingredient Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Micronized Talc	14807-96-6	Anti-blocking, nucleation, stiffness	40.00
Micronized Mica	12001-26-2	Barrier enhancement, dimensional stability	25.00
Calcium Carbonate (Fine Grade)	471-34-1	Cost reduction, improves impact resistance	20.00
Glycerol Monostearate (GMS 90%)	31566-31-1	Anti-blocking, dispersion aid	3.00
Micronized Polyethylene Wax	9002-88-4	Surface slip, anti-blocking, mold release	2.00
AO-1010	6683-19-8	Long-term thermal & oxidative stabilization	0.80
AO-168	31570-04-4	Melt processing antioxidant	0.70
Hydrophobic Silica (R972)	67762-90-7	Anti-caking, improves flow during storage	0.50
TOTAL			100.00

Physical Properties

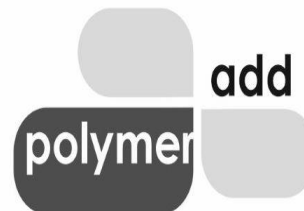
Property	Value
Appearance	Fine white to pale gray powder
D50 Particle Size	< 10 μm
Bulk Density	0.40–0.55 g/cm ³
Compatibility	LDPE, LLDPE, HDPE
Moisture Content	< 0.5%
Shelf Life	24 months from production date

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Recommended Dosage

Use at 1.0% to 5.0% w/w in PE formulations depending on the intended performance: anti-blocking, dispersion, or stiffness. Suited for film extrusion, blow molding, and sheet extrusion.

Storage and Handling

Store in a cool, dry, and well-ventilated area. Keep packaging sealed when not in use. Avoid exposure to high humidity. Handle with standard powder-handling protocols.

Packing Instructions

Packaging Format	Details
Standard Bag	10 kg PE-lined Kraft Paper Bag
Optional	5 kg HDPE double-liner sealed bags
Palletization	500 kg per pallet (50 bags x 10 kg)
labelling	Product Name, Batch No, Net Weight, MFG Date, Expiry Date
Storage Condition	≤ 30°C, RH < 60%, store in dry ventilated area

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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