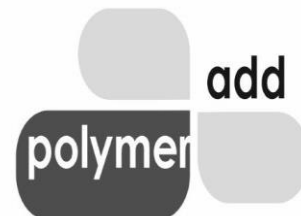


Polymer Add (Thailand) Co.,Ltd.

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TECHNICAL DATA SHEET

WPC-MICROBLEND XT 3030

Micronized Additive Blend for Wood Plastic Composites

Product Description

WPC-MicroBlend XT 3030 is a high-efficiency micronized additive blend developed for improving processing, surface quality, and weathering resistance in **wood-plastic composite (WPC)** extrusion. This blend ensures better dispersion of lubricants and stabilizers in high-filled wood-polymer systems, while enhancing flow, melt stability, and long-term performance.

Key Features and Benefits

- Enhances flow in high wood-filled composites
- Reduces screw torque and improves throughput
- Improves surface finish and gloss of WPC profiles
- Provides thermal and oxidative stability during extrusion
- Reduces plate-out and improves mold release

Typical Composition

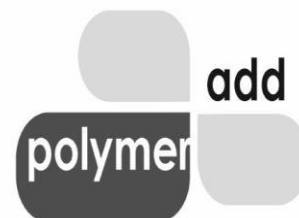
Component	Function	% w/w	CAS Number
Micronized PE Wax	External lubricant; reduces friction and plate-out	35%	9002-88-4
GMS 90% (Glycerol Monostearate)	Internal lubricant; enhances dispersion and flow	20%	31566-31-1
Calcium Stearate	Filler-compatible lubricant, mild stabilizer	15%	1592-23-0
Zinc Stearate	Thermal stabilizer; improves compatibility with pigments	10%	557-05-1
Antioxidant 1010	Primary antioxidant; prevents polymer degradation	5%	6683-19-8
Antioxidant 168	Secondary antioxidant; works synergistically with AO1010	5%	31570-04-4
Fumed Silica (R972 type)	Flow aid, reduces caking during storage and feeding	2%	112945-52-5
Moisture Buffer (optional)	Prevents moisture-related clumping in wood-filled blends	8%	471-34-1 / 112926-00-8
TOTAL		100%	

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Typical Physical Properties

Property	Value
Appearance	White to off-white free-flowing powder
Bulk Density	0.30 – 0.40 g/cm ³
Particle Size (D100)	< 20 µm
Particle Size (D50)	6 – 10 µm
Melting Point Range	90 – 120 °C (composite basis)
Moisture Content	< 0.5% (if stored properly)
Odor	Neutral to slightly waxy

Recommended Applications

- WPC decking, cladding, railing profiles
- Extruded or injection-molded wood-polymer composites
- PE-, PP-, or PVC-based WPC formulations with wood flour or rice husk

Recommended Dosage

- **1.0 – 2.5 phr** based on total WPC formulation
- Adjust depending on wood filler content and base polymer melt index

Packaging and Storage

Item	Details
Packaging	20 kg multilayer kraft bag with PE liner
Shelf Life	12 months from date of manufacture
Storage Conditions	Store in a dry, cool area; protect from humidity and sunlight

Regulatory Compliance

- All ingredients compliant with general industrial and polymer additive standards
- Not intended for direct food contact or medical-grade 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