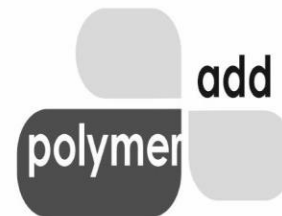


Polymer Add (Thailand) Co.,Ltd.

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TECHNICAL DATA SHEET

ELECTROCOAT MICROBLEND E30

Micronized Additive Blend for Powder Coating – Office Equipment & Electronics

Product Description

ElectroCoat MicroBlend E30 is a micronized multifunctional additive blend formulated for use in powder coatings applied to **office machines**, **metal casings**, and **electronic housings**. It delivers superior surface feel, anti-mar properties, and improved pigment orientation in semi-gloss and matte finishes typically required for modern equipment surfaces.

Key Features and Benefits

- Enhances surface smoothness and reduces finger marking
- Provides scratch and scuff resistance for high-touch surfaces
- Aids in pigment leveling and orientation for uniform finish
- Prevents orange peel and edge film buildup in thin coatings
- Compatible with low bake, TGIC-free, and hybrid powder systems

Typical Composition

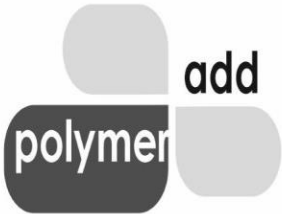
Component	Function	% w/w	CAS Number
Micronized PE Wax	Anti-blocking, gloss adjustment, enhances surface slip	40%	9002-88-4
Synthetic Amide Wax	Mar resistance and surface toughness	15%	68953-58-2
Acrylic Processing Aid	Improves melt leveling and surface clarity	10%	9011-87-4
Fumed Silica (R972 type)	Flow modifier and anti-caking agent	2%	112945-52-5
Antioxidant 1010	Prevents discoloration during bake or heat exposure	3%	6683-19-8
Polyether-Modified Silicone	Fingerprint resistance, surface slip enhancer	10%	27306-78-1
Pigment Orientation Aid	Improves color uniformity and reduces haze in dark finishes	10%	9003-11-6
Moisture Buffer (optional)	Enhances flow stability under humid storage conditions	10%	471-34-1 112926-00-8
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)	6 – 9 µm
Melting Point Range	95 – 125 °C (blend basis)
Moisture Content	< 0.5%
Odor	Neutral to faint waxy

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Recommended Applications

- Printer, copier, and scanner housings
- Metal cabinets, drawers, and office partitions
- Server racks, routers, and switch enclosures
- Powder coatings requiring fingerprint and scratch resistance

Recommended Dosage

- **0.8 – 1.8 phr** based on total formulation
- Compatible with low bake, hybrid, polyester, and epoxy systems

Packaging and Storage

Item	Details
Packaging	20 kg kraft paper bag with PE liner or HDPE drum
Shelf Life	12 months in dry, sealed storage
Storage Conditions	Store in cool, dry area; protect from humidity and sunlight

Regulatory Compliance

- All ingredients comply with general powder coating industry regulations
- Not suitable for direct food contact or medical 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