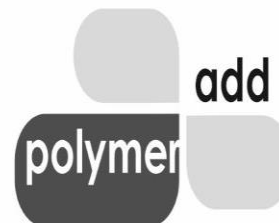


# Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

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## TECHNICAL DATA SHEET

### AUTOCOAT MICROBLEND A90

*Micronized Additive Blend for Powder Coating – Automotive Applications*

#### Product Description

AutoCoat MicroBlend A90 is a micronized multifunctional additive blend formulated for high-performance powder coatings used in **automotive parts**, including wheels, trims, and underbody components. This blend enhances surface durability, abrasion resistance, and coating smoothness while improving powder flow and anti-blocking characteristics.

#### Key Features and Benefits

- Improves scratch and abrasion resistance on coated metal surfaces
- Enhances surface slip and mar resistance during use and transport
- Promotes better powder flow during electrostatic application
- Reduces blocking and sticking during part stacking or handling
- Helps in gloss and matting control for surface consistency

#### Typical Composition

Component	Function	% w/w	CAS Number
Micronized PE Wax	Surface slip agent, anti-scratch and anti-blocking agent	55%	9002-88-4
Micronized PTFE (optional)*	Improves abrasion resistance and low-friction surface	10%	9002-84-0
Silica-treated PE Wax	Anti-caking, enhances powder flow and storage stability	15%	9002-88-4 112945-52-5
Synthetic Amide Wax	Matting aid and smoothness enhancer	10%	68953-58-2
Fumed Silica (R972 type)	Flow modifier and anti-caking agent	2%	112945-52-5
Antioxidant 1010	Thermal stabilizer during powder processing	3%	6683-19-8
Moisture Scavenger (optional)	Absorbs moisture in powder system, enhances shelf stability	5%	471-34-1 112926-00-8
TOTAL		100%	

\*PTFE use is optional based on environmental policy and regional regulations.

#### Typical Physical Properties

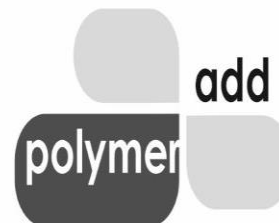
Property	Value
Appearance	White to light gray free-flowing powder
Bulk Density	0.35 – 0.45 g/cm <sup>3</sup>
Particle Size (D100)	< 20 µm
Particle Size (D50)	5 – 9 µm
Melting Point Range	100 – 140 °C (blend basis)
Moisture Content	< 0.5%
Odor	None to faint waxy

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## Recommended Applications

- Automotive wheel rims and underbody protection
- Plastic and metal trims, handles, and frame components
- Powder coatings requiring enhanced durability and surface slip

## Recommended Dosage

- 0.5 – 2.0 phr based on total powder formulation weight
- Can be incorporated during premixing or post-blended as required by coating type

## Packaging and Storage

Item	Details
Packaging	20 kg HDPE drums or multilayer kraft bags
Shelf Life	12 months in original sealed packaging
Storage Conditions	Store in cool, dry area; avoid moisture exposure and sunlight

## Regulatory Compliance

- Ingredients comply with general industrial use regulations for powder coatings
- PTFE content subject to regional environmental guidelines and usage limits

***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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