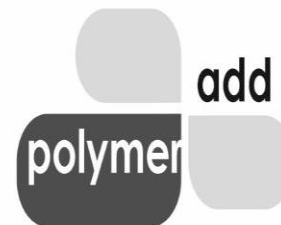


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TECHNICAL DATA SHEET

FLEXOINK MICROBLEND W32

Micronized Additive Blend for Water-Based Flexographic Inks

Product Description

FlexoInk MicroBlend W32 is a specially formulated micronized additive blend for **water-based flexographic inks**. It provides excellent rub resistance, slip, anti-blocking performance, and improved print durability for porous and semi-porous substrates. Designed to disperse easily without affecting ink viscosity or stability.

Key Features and Benefits

- Enhances **dry rub resistance** on paper, board, and film
- Provides **slip and anti-blocking** properties without increasing gloss
- Reduces friction and scuffing in high-speed flexo printing
- Water-repellent and non-migrating — ideal for food packaging
- Stable in **alkaline pH** systems common in water-based ink formulations

Typical Composition

Component	Function	% w/w	CAS Number
Micronized PE Wax	Primary rub resistance and slip	50%	9002-88-4
Synthetic Amide Wax	Mar resistance and water repellency	15%	68953-58-2
Micronized PTFE (fine grade)	Improves slip and abrasion resistance	10%	9002-84-0
Dispersible Fumed Silica	Flow control, anti-caking, and stable dispersion	2%	112945-52-5
Polyether-Modified Silicone	Anti-blocking, surface slip, and fingerprint resistance	8%	27306-78-1
Acrylic Flow Modifier	Pigment orientation, film leveling	5%	9011-87-4
Moisture Buffer (optional)	Prevents clumping and improves storage life	10%	471-34-1 112926-00-8
TOTAL		100%	

Typical Physical Properties

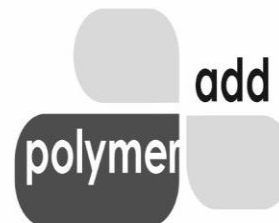
Property	Value
Appearance	White to off-white free-flowing powder
Bulk Density	0.30 – 0.42 g/cm ³
Particle Size (D100)	< 20 µm
Particle Size (D50)	5 – 8 µm
Melting Point Range	95 – 130 °C
pH Stability	Compatible with pH 7–9 systems
Dispersibility	Excellent in water-based resin vehicles
Odor	Neutral to faint waxy

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Recommended Applications

- Water-based flexographic inks for:
 - Corrugated boxes and kraft paper
 - Paper bags, cartons, and cups
 - Recycled and coated board packaging
- Inks for **food packaging** (non-contact surfaces)
- Flexible packaging requiring **non-blocking, durable films**

Recommended Dosage

- **0.5 – 2.0%** of total ink weight
- Disperse using high-shear mixing or in a vehicle concentrate

Packaging and Storage

Item	Details
Packaging	10–20 kg kraft bag with PE liner or HDPE drum
Shelf Life	12 months if stored dry and sealed
Storage Conditions	Store in cool, dry conditions; avoid direct sunlight and humidity

Regulatory Compliance

- All ingredients comply with general regulations for flexographic inks
- Suitable for **non-direct food contact** and **paper 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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Supersedes all previous versions