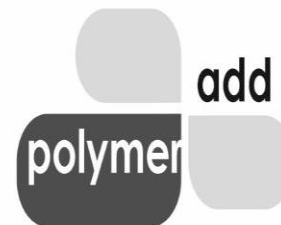


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TECHNICAL DATA SHEET

OFFSETINK MICROBLEND O21

Micronized Additive Blend for Offset (Lithographic) Printing Inks

Product Description

OffsetInk MicroBlend O21 is a high-performance micronized additive blend designed for **sheetfed and web offset printing inks**. It enhances rub resistance, reduces set-off, and contributes to gloss control and clean print definition, especially on coated and uncoated substrates. Optimized for smooth dispersion and high-speed commercial printing.

Key Features and Benefits

- Excellent dry **rub resistance** for ink films
- Prevents **set-off** and **smudging** during stacking or transport
- Provides **surface slip** and controlled **matte/gloss balance**
- Ensures consistent **film integrity** on coated/uncoated paper
- Disperses easily in **oil-based or vegetable oil-based ink vehicles**

Typical Composition

Component	Function	% w/w	CAS Number
Micronized PE Wax	Slip and rub resistance	50%	9002-88-4
Synthetic Amide Wax	Enhances mar resistance and slip	20%	68953-58-2
Micronized PTFE	Ultra-low friction, anti-scuff	10%	9002-84-0
Fumed Silica (R972 type)	Flow control and anti-caking	2%	112945-52-5
Antioxidant 1010	Oxidation resistance during drying	3%	6683-19-8
Acrylic Processing Aid (micronized)	Pigment dispersion and film leveling	5%	9011-87-4
Moisture Buffer (optional)	Stability against humidity and agglomeration	10%	471-34-1 112926-00-8
TOTAL		100%	

Typical Physical Properties

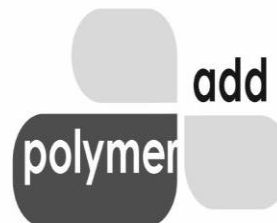
Property	Value
Appearance	White to off-white micronized powder
Bulk Density	0.30 – 0.42 g/cm ³
Particle Size (D100)	< 20 µm
Particle Size (D50)	5 – 8 µm
Melting Point Range	100 – 130 °C (blend basis)
Dispersibility	Excellent in oil-based and vegetable-based ink systems
Odor	Neutral to faint waxy

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Recommended Applications

- Sheetfed offset inks for commercial and high-quality packaging
- Web offset inks (heatset/coldset) for catalogs and newsprint
- Inks used on coated, uncoated, recycled, or specialty paper
- Ideal for enhancing surface durability and clean print finish

Recommended Dosage

- **0.5 – 2.0%** based on total ink formulation weight
- Can be **pre-dispersed** in vehicle or added during ink let-down phase

Packaging and Storage

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

Regulatory Compliance

- All ingredients compliant with general industrial ink regulations
- Not approved for food contact or pharmaceutical packaging inks

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