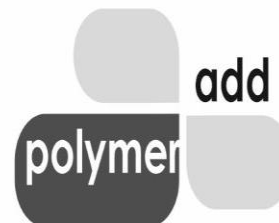


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TECHNICAL DATA SHEET

GRAVUREINK MICROBLEND G45

Micronized Additive Blend for Gravure Printing Inks

Product Description

GravureInk MicroBlend G45 is a high-performance micronized additive blend formulated for **solvent- and water-based gravure inks**. It enhances rub and scuff resistance, provides excellent surface slip and gloss control, and ensures smooth ink film formation on substrates like BOPP, PET, PVC, and paper. Ideal for high-speed printing and flexible packaging applications.

Key Features and Benefits

- Improves **slip, scratch resistance**, and **anti-scuff durability**
- Reduces **blocking**, especially in roll-to-roll applications
- Enhances **gloss uniformity** and minimizes print haze
- Provides **consistent dispersion** in solvent and aqueous systems
- Ideal for **lamination-grade** and **overprint varnish** applications

Typical Composition

Component	Function	% w/w	CAS Number
Micronized PE Wax	Slip, rub resistance, gloss control	42%	9002-88-4
Synthetic Amide Wax	Mar resistance, anti-blocking	16%	68953-58-2
Micronized PTFE	Scuff resistance, ultra-low friction	11%	9002-84-0
Glycerol Monostearate	Internal slip, improves adhesion and flow	11%	31566-31-1
Acrylic Processing Aid	Pigment holdout and film formation	8%	9011-87-4
Polyether-Modified Silicone wax	Fingerprint resistance, surface slip enhancement	5%	27306-78-1
Fumed Silica (R972 type)	Anti-caking, improves storage and dispersibility	2%	112945-52-5
Calcium Carbonate (Optional)	Minimal moisture buffer for blend stability	3%	471-34-1
TOTAL		100%	

Typical Physical Properties

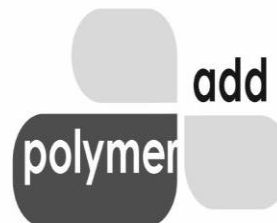
Property	Value
Appearance	White to off-white micronized powder
Bulk Density	0.30 – 0.42 g/cm ³
Particle Size (D100)	< 20 µm
Particle Size (D50)	5 – 8 µm
Melting Point Range	95 – 130 °C (blend basis)
Dispersibility	Excellent in solvent- and water-based systems
Odor	Neutral to faint waxy

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Recommended Applications

- Gravure inks for **flexible packaging** (films, foils, laminates)
- Inks for **BOPP, PET, PE, PVC**, and **coated/uncoated paper**
- High-speed rotogravure printing lines
- Overprint varnishes requiring **rub and scratch resistance**

Recommended Dosage

- **0.5 – 2.0%** based on total ink formulation weight
- Can be **pre-dispersed** in resin or solvent concentrate, or added in 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 in sealed packaging under dry storage
Storage Conditions	Store in cool, dry conditions; avoid humidity and direct sunlight

Regulatory Compliance

- All ingredients meet industrial standards for gravure ink applications
- Suitable for **non-direct food contact** packaging (indirect contact areas)

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