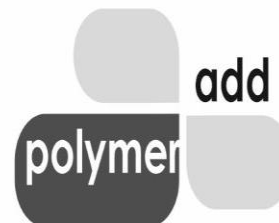


# Polymer Add (Thailand) Co.,Ltd.

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

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## TECHNICAL DATA SHEET

### SCREENINK MICROBLEND S29

*Micronized Additive Blend for Screen Printing Inks*

#### Product Description

ScreenInk MicroBlend S29 is a premium micronized additive blend designed to improve **surface slip, rub resistance**, and **print smoothness** in screen printing inks. It is suitable for **solvent-based, UV-curable**, and select **water-based** screen inks. The blend helps reduce scratching, metal marking, and blocking during stacking or handling.

#### Key Features and Benefits

- Provides excellent **scuff and mar resistance** in thick film deposits
- Enhances **slip and anti-blocking**, especially on plastics and paper
- Improves **film smoothness** and **print uniformity**
- Compatible with most **UV-curable, solvent-based**, and **hybrid** systems
- Easy to disperse in conventional ink vehicles

#### Typical Composition

Component	Function	% w/w	CAS Number
Micronized PE Wax	Slip, rub resistance, gloss control	40%	9002-88-4
N,N'-Ethylene bis(stearamide) Amide Wax	Mar resistance, surface toughness	15%	110-30-5
Micronized PTFE	Ultra-low friction, anti-scuff	10%	9002-84-0
Glycerol Monostearate	Internal slip, anti-blocking	10%	31566-31-1
Poly(methyl methacrylate) or PMMA-based copolymer	Film leveling, pigment orientation	10%	9011-87-4
Fumed Silica (Hydrophobic)	Flow aid, anti-caking	2%	112945-52-5
Silicone Wax Powder	Surface slip, fingerprint resistance	5%	68937-54-2
Calcium Carbonate	Moisture buffer, storage stability	8%	471-34-1
TOTAL		100%	

#### Typical Physical Properties

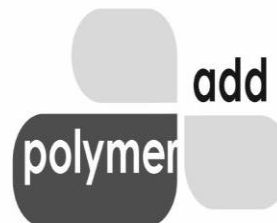
Property	Value
Appearance	White to off-white micronized powder
Bulk Density	0.30 – 0.42 g/cm <sup>3</sup>
Particle Size (D100)	< 20 µm
Particle Size (D50)	5 – 8 µm
Melting Range	95 – 130 °C (composite blend)
Dispersibility	Excellent in solvent and UV-curable inks
Odor	Neutral to faint waxy

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## Recommended Applications

- Solvent-based and UV screen inks for:
  - Plastic films (PVC, PET, PC, BOPP)
  - Paper, board, and labels
  - Textile heat transfer and durable prints
- Inks requiring **slip, mar resistance, and blocking control**

## Recommended Dosage

- **0.5 – 2.5%** based on total ink weight
- Can be added during pigment paste or let-down phase
- Pre-wet with solvent or vehicle for easier dispersion if needed

## Packaging and Storage

Item	Details
Packaging	10–20 kg kraft bag with inner PE liner or HDPE drum
Shelf Life	12 months in dry, sealed packaging
Storage Conditions	Cool, dry area; avoid moisture and direct sunlight

## Regulatory Compliance

- All ingredients comply with industrial ink formulation standards
- Not certified for direct food contact or pharmaceutical packaging

*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