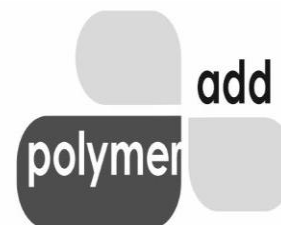


Polymer Add (Thailand) Co.,Ltd.

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

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TECHNICAL DATA SHEET

UVINK MICROBLEND U115

Micronized Additive Blend for UV-Curable Inks

Product Description

UVInk MicroBlend U115 is a finely engineered micronized additive blend tailored for UV-curable ink systems including flexo, offset, and screen printing. It offers superior surface slip, rub resistance, anti-blocking, and optimized flow behavior while maintaining full UV-curing compatibility. The addition of moisture buffering ensures long-term storage stability in humid conditions.

Component 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 levelling	5%	9011-87-4
Moisture Buffer (Calcium-Based)	Prevents clumping and improves storage life	10%	471-34-1 112926-00-8
	Total	100%	

Typical Physical Properties

Property	Typical Value
Appearance	White to off-white fine powder
Particle Size (D50)	< 8 μm
Particle Size (D90)	< 15 μm
Bulk Density	~0.35 g/cm ³
Melting Range	~95 – 135 °C
Surface Nature	Hydrophobic
Odor	Neutral

Recommended Applications

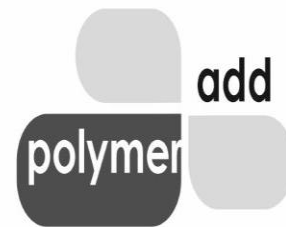
- UV Flexographic Inks
- UV Offset Inks
- UV Screen Inks
- LED-UV Curable Coatings and Overprint Varnishes

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Dosage Recommendation

Use at 0.5% – 3.0% by weight in the finished formulation. Optimum dosage depends on formulation type and desired surface properties.

Packaging & Storage

- Packaging: 10 kg or 15 kg PE-lined fiber drums or foil-sealed bags
- Storage: Keep tightly sealed in a dry, well-ventilated area below 35°C
- Shelf Life: 24 months in unopened condition

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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