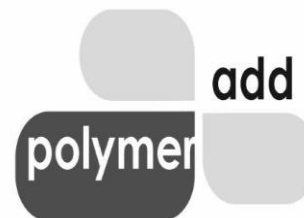


# Polymer Add (Thailand) Co.,Ltd.

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## TECHNICAL DATA SHEET

### PVC-LUBE BLEND 2050

*Micronized Additive Blend for PVC Pipe Extrusion*

#### Product Description

PVC-LubeBlend 2050 is a pre-engineered micronized blend of processing additives designed to enhance the extrusion performance, surface quality, and output efficiency of rigid PVC pipe formulations. It combines lubrication, melt-strength improvement, and flow enhancement in a single, easy-to-dose product.

#### Typical Composition

Component	Function	CAS Number	% w/w
Micronized PE Wax	External lubricant, reduces die friction, gloss	9002-88-4	40%
Calcium Stearate	Internal lubricant, aids flow	1592-23-0	20%
Zinc Stearate	Heat stabilizer, fusion promoter	557-05-1	10%
Acrylic Processing Aid	Melt strength, fusion enhancer	9011-87-4	20%
Fumed Silica (R972 type)	Anti-caking, improves blend flow	112945-52-5	2%
Optional: Moisture Buffer	Controls humidity in blend storage	Varies	8%

#### Physical Properties

Property	Typical Value
Appearance	Free-flowing white powder
Bulk Density	0.25 – 0.35 g/cm <sup>3</sup>
Particle Size (D100)	< 20 µm
Particle Size (D50)	5 – 8 µm
Melting Range	100 – 120 °C
Odor	Neutral
Moisture Content	< 0.3% (if stored correctly)

#### Applications

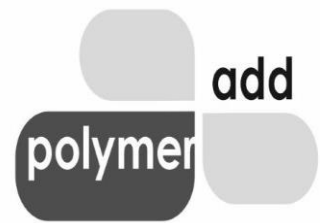
- Rigid PVC Pipes (pressure & non-pressure)
- Electrical conduits
- Water transport and drainage systems
- Extruded window profiles (optional)

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## Key Benefits

- Reduces die wall friction → lower torque and energy consumption
- Enhances melt homogeneity and surface gloss
- Prevents plate-out and improves thermal stability
- Simplifies dosing with single multi-functional blend
- Minimizes caking and improves feeding behavior in automatic systems

## Recommended Dosage

Addition level: 0.5 – 1.5 phr in PVC formulation (based on resin weight)

Can be adjusted based on extrusion speed, tooling, and end-application

## Packaging & Storage

Standard Packing: 20 kg lined kraft paper bag or HDPE drum

Storage Conditions: Cool, dry, and covered environment

Shelf Life: 12 months from date of manufacture under sealed, dry conditions

## Regulatory Status

All components are compliant with standard industrial PVC processing regulations

Not approved for direct food contact unless otherwise specified

***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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