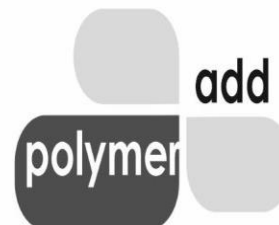


# Polymer Add (Thailand) Co.,Ltd.

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

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



## TECHNICAL DATA SHEET

### SB-PP01

Micronized Nucleating & Lubricant Blend for Polypropylene

#### Product Description

**SB-PP01** is a micronized functional additive blend designed for polypropylene (PP) compounding. It combines the crystallization-accelerating benefits of Sodium Benzoate with the processing advantages of Glycerol Monostearate (GMS), delivering improved stiffness, shorter cycle times, enhanced mold release, and superior surface finish. Optional inclusion of anti-caking silica ensures free-flowing behavior during storage and feeding.

#### Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Sodium Benzoate	532-32-1	Nucleating agent; improves stiffness and crystallization	66.7%
GMS 90%	31566-31-1	Internal/external lubricant; improves flow and mold release	33.0%
Aerosil R972 (optional)	63231-67-4	Anti-caking and flow aid	0.3%

#### Physical Properties

Property	Value / Description
Appearance	Fine white to off-white powder
Odor	Mild (waxy or fatty)
Particle Size (D100)	< 20 $\mu\text{m}$ (micronized)
Bulk Density	~0.40–0.55 g/cm <sup>3</sup>
Flow Characteristics	Free-flowing; optional silica-treated version
Moisture Content	< 0.5% (as packed)

#### Thermal Characteristics

Component	Melting / Decomposition Temperature (°C)
Sodium Benzoate	~410 °C
GMS 90%	~65–75 °C
Aerosil R972 / or equivalent	>250 °C (non-melting, amorphous silica)

#### Storage and Handling

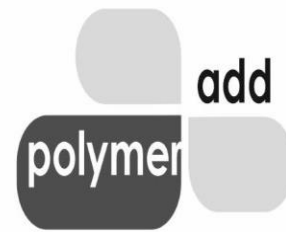
- Store in a dry, cool environment (<30 °C); avoid moisture and direct sunlight.
- Wear appropriate PPE (mask, gloves, goggles) when handling fine powders.
- Shelf-life: 12 months under recommended storage conditions.

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## Packaging Options

Packaging Type	Standard Size
Remarks	Multi-layer PE Bags
10 Kg / 15 Kg	With inner moisture-resistant liner
HDPE Drums	25 Kg
For export and bulk users	Fiberboard Boxes
On Request	Sealed with PE liner
Custom Packaging	Available on request
MOQ and delivery lead times apply	

*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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