

# Polymer Add (Thailand) Co.,Ltd.

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## TECHNICAL DATA SHEET

### SB-OOB01

Micronized Organic Nucleating Blend for Polypropylene

#### Product Description

SB-OOB01 is a micronized blend of sodium benzoate and lithium benzoate designed as a cost-efficient, high-performance nucleating package for polypropylene (PP). The combination balances the high nucleation efficiency of lithium benzoate with the large-scale availability and lower cost of sodium benzoate. The blend accelerates crystallization, shortens molding cycle time, and enhances stiffness in injection and extrusion PP applications.

#### Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Sodium Benzoate	532-32-1	Organic nucleating agent	70.0%
Lithium Benzoate	553-54-8	Organic nucleating agent	30.0%

#### Physical Properties

Property	Value / Description
Appearance	Fine white powder
Odor	Odorless to faint
Particle Size (D100)	< 20 $\mu\text{m}$ (micronized)
Bulk Density	$\sim 0.40\text{--}0.55 \text{ g/cm}^3$
Flow Characteristics	Free flowing (silica-treated version available)
Moisture Content	< 0.3% (as packed)

#### Thermal Characteristics

Component	Melting / Decomposition Temperature ( $^{\circ}\text{C}$ )
Sodium Benzoate	$\sim 410 \text{ }^{\circ}\text{C}$ (slow decomposition)
Lithium Benzoate	$> 300 \text{ }^{\circ}\text{C}$ (thermally stable in PP processing)
Aerosil R972	$> 250 \text{ }^{\circ}\text{C}$ (amorphous silica; non-melting)

#### Storage and Handling

- Store in a dry, cool environment ( $< 30 \text{ }^{\circ}\text{C}$ ); keep sealed to avoid moisture uptake.
- Shelf-life: 12 months in original packaging.
- Handle fine powders with mask, gloves, goggles.

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## Packaging Options

Packaging Type	Standard Size	Remarks
Multi-layer PE Bags	10 Kg / 15 Kg	With moisture-resistant liner
HDPE Drums	25 Kg	Export packaging

## Disclaimer

This pre-blend is offered as a dry additive system for technical use in polymer processing. The user is responsible for verifying dosage, processing conditions, and final product performance. Polymer Add Thailand shall not be liable for any incidental or consequential damages from improper use or unverified application.

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