

# Polymer Add (Thailand) Co.,Ltd.

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## TECHNICAL DATA SHEET

### SB-OIB03

#### Micronized Organic + Inorganic Nucleating Blend for Polypropylene

#### Product Description

SB-OIB03 is a dual nucleating system consisting of sodium benzoate and silica (fumed/amorphous). This blend provides fast crystallization and fine dispersion, making it especially effective in thin-wall and fiber-grade PP.

#### Composition

| Chemical Name            | CAS Number | Function                   | Typical % (w/w) |
|--------------------------|------------|----------------------------|-----------------|
| Sodium Benzoate          | 532-32-1   | Organic nucleating agent   | 50.0%           |
| Silica (fumed/amorphous) | 7631-86-9  | Inorganic nucleating agent | 50.0%           |

#### Physical Properties

| Property             | Value / Description          |
|----------------------|------------------------------|
| Appearance           | Fine white powder            |
| Particle Size (D100) | < 5 $\mu\text{m}$            |
| Bulk Density         | ~0.30–0.60 g/cm <sup>3</sup> |
| Flow Characteristics | Free-flowing                 |
| Moisture Content     | < 0.3%                       |

#### Thermal Characteristics

| Component       | Stability |
|-----------------|-----------|
| Sodium Benzoate | ~410 °C   |
| Silica          | >1000 °C  |

#### Storage and Handling

Store sealed, dry, below 30 °C.

Shelf-life: 12 months.

#### Packaging Options

10–15 Kg PE bags

25 Kg HDPE drums

#### 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.