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TECHNICAL DATA SHEET

SB-OIB04

Micronized Organic + Inorganic Specialty Nucleating Blend for Polypropylene

Product Description

SB-OIB04 is a specialty nucleating blend of sodium benzoate and boron nitride (BN). It offers high nucleation density, excellent thermal conductivity, and dimensional stability in PP formulations designed for electronics, thermal management, and specialty molded parts.

Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Sodium Benzoate	532-32-1	Organic nucleating agent	30.0%
Boron Nitride (hexagonal)	10043-11-5	Inorganic nucleating / thermal additive	70.0%

Physical Properties

Property	Value / Description
Appearance	Fine gray-white powder
Particle Size (D100)	< 10 μm
Bulk Density	~0.60–1.00 g/cm ³
Flow Characteristics	Free-flowing
Moisture Content	< 0.2%

Thermal Characteristics

Component	Stability
Sodium Benzoate	~410 °C
Boron Nitride	>1000 °C (stable, high thermal conductivity)

Storage and Handling

Store sealed, dry.

Shelf-life: 18–24 months.

Handle with care to avoid inhalation of fine powders.

Packaging Options

10–25 Kg lined PE bags

Custom drums for export

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.