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TECHNICAL DATA SHEET

SB-IIB01

Micronized Inorganic Nucleating Blend for Polypropylene

Product Description

SB-IIB01 is a micronized additive system combining talc and calcium carbonate (ultrafine grade) for polypropylene (PP). This blend delivers strong nucleation, improved stiffness, and dimensional stability while reducing formulation cost. Widely used in automotive and appliance applications.

Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Talc ($\text{Mg}_3\text{Si}_4\text{O}_{10}(\text{OH})_2$)	14807-96-6	Inorganic nucleating filler	60.0%
Calcium Carbonate (ultrafine)	471-34-1	Inorganic nucleating filler	40.0%
Aerosil R972 (optional)	63231-67-4	Flow aid	0.3%

Physical Properties

Property	Value / Description
Appearance	Fine off-white powder
Odor	Odorless
Particle Size (D100)	< 10 μm (micronized blend)
Bulk Density	~0.80–1.20 g/cm^3
Flow Characteristics	Free-flowing with silica
Moisture Content	< 0.5%

Thermal Characteristics

Component	Thermal Stability
Talc	Stable >900 °C
Calcium Carbonate	Decomposes >825 °C (to $\text{CaO} + \text{CO}_2$)
Aerosil R972	>250 °C (non-melting)

Storage and Handling

Store in dry conditions, <30 °C.

Handle with PPE (dust mask, gloves, goggles).

Shelf-life: 24 months (in sealed packs).

Packaging Options

PE bags: 15–25 Kg

Bulk bags: 500–1000 Kg

Custom packs available.

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.