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TECHNICAL DATA SHEET

SB-OOB02

Micronized Organic Nucleating Blend for Polypropylene

Product Description

SB-OOB02 is a micronized blend of sodium benzoate and calcium pimelate, designed to deliver both crystallization acceleration and dimensional stability in polypropylene (PP). The blend provides reduced cycle time, increased stiffness, and improved impact balance compared to sodium benzoate alone.

Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Sodium Benzoate	532-32-1	Nucleating agent	60.0%
Calcium Pimelate (Calcium Heptanedioate)	4835-11-4	Nucleating agent	40.0%
Aerosil R972 (optional)	63231-67-4	Anti-caking & flow aid	0.3%

Physical Properties

Property	Value / Description
Appearance	Fine white to off-white powder
Odor	Odorless to faint
Particle Size (D100)	< 20 μm
Bulk Density	~0.40–0.55 g/cm ³
Flow Characteristics	Free-flowing (silica-treated version available)
Moisture Content	< 0.3%

Thermal Characteristics

Component	Melting / Decomposition Temperature (°C)
Sodium Benzoate	~410 °C
Calcium Pimelate	~370–390 °C (decomposes)
Aerosil R972	>250 °C (amorphous silica; stable)

Storage and Handling

Store dry, <30 °C, avoid moisture.

Shelf-life: 12 months.

Handle with PPE for fine powders.

Packaging Options

PE Bags: 10–15 Kg

HDPE Drums: 25 Kg

Fiberboard boxes or custom packs on request.

Disclaimer

This pre-blend is offered for technical use in PP compounding. User must validate dosage and performance for specific applications.