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TECHNICAL DATA SHEET

SB-OOB03

Micronized High-Efficiency Organic Nucleating Blend for Polypropylene

Product Description

SB-OOB03 is a specialty nucleating blend combining lithium benzoate with a terephthalamide derivative. It offers high nucleation density and smaller spherulite size compared to benzoates alone, enabling improved isotropy and balanced mechanical properties in polypropylene.

Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Lithium Benzoate	553-54-8	Nucleating agent	70.0%
N,N'-Dicyclohexylterephthalamide	5834-78-6	Nucleating agent	30.0%

Physical Properties

Property	Value / Description
Appearance	Fine off-white crystalline powder
Odor	Faint, amide-like
Particle Size (D100)	< 20 μm
Bulk Density	$\sim 0.35\text{--}0.50 \text{ g/cm}^3$
Flow Characteristics	Free-flowing with optional silica treatment
Moisture Content	< 0.3%

Thermal Characteristics

Component	Melting / Decomposition Temperature ($^{\circ}\text{C}$)
Lithium Benzoate	>300 $^{\circ}\text{C}$ (stable in PP melt)
Terephthalamide derivative	$\sim 250\text{--}280 \text{ }^{\circ}\text{C}$ (melts/decomposes gradually)

Storage and Handling

Store sealed, dry, <30 $^{\circ}\text{C}$.

Shelf-life: 9–12 months (sensitive to moisture).

PPE required when handling.

Packaging Options

PE Bags: 10–15 Kg

HDPE Drums: 25 Kg

Custom packs on request.

Disclaimer

Specialty additive for technical evaluation only. User responsible for verifying dosage and performance.