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TECHNICAL DATA SHEET

SB-OOB04

Micronized Dual Organic Nucleating System for Polypropylene

Product Description

SB-OOB04 is a blended nucleating system combining calcium pimelate with isophthalic or terephthalic acid. This dual approach accelerates crystallization while refining spherulite size, offering improved stiffness and transparency balance in polypropylene applications.

Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Calcium Pimelate	4835-11-4	Nucleating agent	70.0%
Isophthalic Acid / Terephthalic Acid	121-91-5 / 100-21-0	Co-nucleator	30.0%

Physical Properties

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

Thermal Characteristics

Component	Melting / Decomposition Temperature (°C)
Calcium Pimelate	~370–390 °C
Isophthalic Acid	~345–348 °C
Terephthalic Acid	~427 °C

Storage and Handling

Store dry, sealed, <30 °C.

Shelf-life: 12 months.

Handle with protective equipment for powders.

Packaging Options

PE Bags: 10–15 Kg

HDPE Drums: 25 Kg

Custom packaging possible.

Disclaimer

This product is provided as a dry additive blend. User must validate performance in specific PP grades and processing conditions.