

Polymer Add (Thailand) Co.,Ltd.

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TECHNICAL DATA SHEET

CALCIUM BENZOATE MICRONISED

PRODUCT CLASSIFICATION

Item	Description
Product Name	Calcium Benzoate Micronised
Chemical Name	Calcium benzoate
CAS Number	2090-05-3
EC Number	218-235-4
Molecular Formula	$C_{14}H_{10}CaO_4$, anhydrous basis
Molecular Weight	282.31 g/mol, anhydrous basis
Chemical Class	Calcium salt of benzoic acid
Synonyms	Calcium dibenzoate; benzoic acid calcium salt

PRODUCT DESCRIPTION

Calcium Benzoate Micronised is a white to off-white powder for polymer formulations. Calcium benzoate is commercially offered as a component of **PVC and PE/PVC stabilizer systems** and as a **polypropylene nucleating agent**. It is a functional additive, rather than a bulk mineral filler or plasticizer.

PRODUCT SPECIFICATIONS

Property	Specification	Test Method
Appearance	White to off-white powder	Visual inspection
Particle size, D50	5–10 μm	Laser diffraction
Particle size, D90	<20 μm	Laser diffraction
Particle size, D100	<40 μm	Laser diffraction

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Physical Form	Fine solid powder
Colour	White to off-white
Odour	Odourless or nearly odourless
Bulk Density	0.40–0.65 g/cm ³
Water Solubility	Sparingly soluble
Melting Point	>310°C; published reference value for calcium benzoate hydrate
Hydration State	Anhydrous or hydrated, according to the material supplied

FUNCTION AND PERFORMANCE

PVC and PE/PVC: Calcium benzoate is used as an ingredient in stabilizer formulations. Performance depends on the complete stabilizer system.

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Polypropylene: Calcium benzoate is commercially offered as a nucleating agent. Dispersion of the micronised powder and the crystallisation response should be evaluated in the intended PP formulation.

USES AND APPLICATIONS

Industry or Polymer	Commercial Application
PVC	Component of stabilizer systems
PE/PVC blends	Component of stabilizer systems
Polypropylene	Nucleating agent

TYPICAL DOSAGE GUIDANCE

Application	Typical Starting Range
PVC and PE/PVC stabilizer systems	Determine from the complete stabilizer formulation
Polypropylene nucleation	Determine through crystallisation and processing trials

HANDLING AND STORAGE

Store in tightly closed packaging in a cool, dry, well-ventilated area. Control airborne dust during transfer and mixing. Account for water of crystallisation if the supplied grade is hydrated.

PACKAGING

Sealed bags or other moisture-protective packaging according to the agreed commercial specification.

REGULATORY INFORMATION

CAS number: **2090-05-3**. EC number: **218-235-4**. Regulatory status for the intended finished article is assessed separately. This TDS makes no food-contact compliance claim.

DISCLAIMER

The stated particle-size and bulk-density values are taken from the supplied calcium benzoate TDS. The melting-point entry is a published reference value for calcium benzoate hydrate. Product release limits are those established for the supplied grade.

Month of Creation: September 2026

Month of Review: September 2028