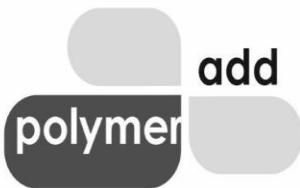


# Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



add

polymer

## CALCIUM BENZOATE (MICRONISED)

### SOLID & HIGH-MELTING PLASTICIZER / FUNCTIONAL POLYMER MODIFIER

Micronised Calcium Benzoate is a solid, high-melting benzoate-based additive used as a permanent plasticizer and internal functional modifier in polymer systems where low migration, thermal stability, and long-term performance retention are required.

In micronised form, it enables uniform dispersion, predictable processing behaviour, and controlled interaction with polymer matrices across a wide range of formulations.

#### Primary Uses & Commercial Applications

##### Flexible & Semi-Rigid PVC Compounds

Calcium Benzoate is applied as a solid plasticizer or co-plasticizer in PVC systems where improved heat stability, dimensional retention, and long-term mechanical consistency are desired. Its high melting point supports performance in elevated-temperature processing and service conditions.

##### PVC & Engineering Polymer Blends

Used as an internal modifier, it helps fine-tune the balance between rigidity and flexibility in engineered formulations, particularly where traditional liquid plasticizers are unsuitable or need partial replacement.

##### Styrenic & ABS Compounds

In filled or flame-retardant styrenic and ABS systems, Calcium Benzoate functions as a stress-relief and compatibility modifier, supporting improved internal cohesion and formulation stability.

##### Polymer–Paper & Polymer–Fiber Composites

In composite structures, it acts as a functional additive improving interfacial stability, contributing to consistent bonding and structural performance between polymer and substrate phases.

##### High-Temperature Polymer Compounds

Its low volatility and low migration behaviour make it suitable for polymer systems requiring permanent modification under continuous thermal exposure, without compromising downstream properties.

#### Functional Role in Polymer Formulations

- Solid, high-melting benzoate plasticizer
- Partial replacement for liquid plasticizers
- Permanent internal modifier with low volatility and migration

# Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriyakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



- Supports dry-blend stability and masterbatch processing
- Suitable for formulations targeting long-term mechanical and thermal performance

## Why Micronised Calcium Benzoate

The micronised particle form allows precise dosage control, faster incorporation, and consistent dispersion in both dry-blend and melt-processed systems. This makes Calcium Benzoate particularly effective in performance-driven formulations where stability over time is as critical as initial processing behaviour.

## Application Scope / Usage Note

Final performance depends on formulation design, processing conditions, and compatibility with other additives. Validation trials are recommended before commercial implementation.