

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



TECHNICAL DATA SHEET (TDS)

CALCIUM BENZOATE (MICRONISED)

1. Product Identification

Item	Details
Chemical Name	Calcium Benzoate
Synonyms	Benzoic acid calcium salt
CAS No.	299-28-5
Molecular Formula	$C_{14}H_{10}CaO_4$
Molecular Weight	286.31 g/mol
Product Form	Micronized solid powder

2. Product Description

Calcium Benzoate is a high-melting, solid aromatic salt supplied in micronized powder form for polymer compounding and formulation applications.

In polymer systems, it functions as a solid plasticizer / functional modifier, providing permanent plasticization, thermal stability, and low migration, particularly in PVC, styrenic polymers, and engineering thermoplastic compounds.

3. Typical Physical Properties

Property	Typical Value
Appearance	White to off-white powder
Odour	Odourless
Melting / Decomposition Range	> 300 °C (decomposes)
Bulk Density	0.40 – 0.65 g/cm ³
Solubility in Water	Slightly soluble
Solubility in Organic Solvents	Insoluble
Thermal Behaviour	Thermally stable during polymer processing

Values are typical and not intended as specifications.

4. Particle Size Characteristics (Micronized Grade)

Parameter	Typical Range
D50	5 – 10 µm
D90	< 20 µm
D100	< 40 µm

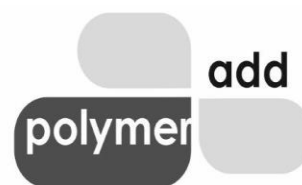
Micronization ensures uniform dispersion, controlled activation, and consistent functional performance in polymer matrices.

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5. Primary Applications

	Application Area
Function	PVC Compounds
Solid plasticizer / co-plasticizer	Engineering Thermoplastics
Internal modifier	Styrenic & ABS Systems
Stress-relief additive	Polymer Composites
Thermal & dimensional stabilizer	

6. Processing & Handling

- Suitable for dry blending and masterbatch preparation
- Compatible with standard compounding and extrusion equipment
- Best incorporated during high shear mixing or melt compounding

7. Storage & Shelf Life

Item	Recommendation
Storage	Cool, dry, well-ventilated area
Container	Keep tightly closed
Shelf Life	24 months under recommended conditions

8. Packaging

- 20–25 kg bags
- Other packaging available on request

9. Regulatory & Compliance (Indicative)

- Intended for industrial use only
- Not classified as SVHC under REACH (indicative)
- Detailed regulatory status available upon request

10. Disclaimer

The information provided is based on typical data and experience and is intended for guidance in formulation development. Users should conduct their own evaluations to determine suitability for their specific applications.