

Polymer Add (Thailand) Co.,Ltd.

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ANTIMONY TRIBENZOATE – MICRONISED

Solid & High-Melting Plasticizer / Permanent Internal Modifier

Product Overview

Antimony Tribenzoate is a high-melting metal-organic benzoate designed for use as a solid plasticizer and permanent internal modifier in thermoplastic and composite systems. Supplied in micronised powder form, it supports uniform dispersion, controlled melt incorporation, and long-term performance stability.

Unlike liquid plasticizers, Antimony Tribenzoate remains structurally embedded within the polymer matrix, delivering flexibility modification with minimal volatility, low migration, and excellent dimensional retention.

Functional Role in Polymer Formulations

Antimony Tribenzoate provides the following functional contributions:

- Solid, high-melting plasticizer
- Permanent internal modifier
- Dimensional-stability enhancer
- Low-migration flexibility control
- Thermal-resistant structural modifier

Primary Application Areas

Application Area	Functional Benefit
Engineering Thermoplastics	Stable plasticization at elevated temperatures
High-Temperature Compounds	Retained flexibility during processing
Polymer–Paper & Polymer–Fiber Composites	Improved interfacial bonding
Filled Polymer Systems	Reduced brittleness and stress concentration
Specialty Polymer Blends	Controlled mechanical tuning

Advantages of Micronised Antimony Tribenzoate

- Uniform dispersion in dry blends and masterbatches
- Consistent processing behaviour
- Reduced agglomeration risk
- Accurate dosing and feeding

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- Long-term performance stability

Performance Characteristics

- High melting / decomposition profile
- Very low volatility and migration
- Excellent permanence in polymer matrices
- Minimal impact on long-term mechanical properties

Application Scope / Usage Note

Antimony Tribenzoate is intended for use as a solid plasticizer and permanent internal modifier in thermoplastic and composite systems. Final dosage and processing conditions should be optimised through formulation trials.

Packaging & Supply

- Supplied as micronised free-flowing powder
- Standard packaging: 10 kg PP Woven sack with inner liner.
- Custom packaging available upon request