

Polymer Add (Thailand) Co.,Ltd.

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TECHNICAL DATA SHEET

POTASSIUM SORBATE- MICRONISED

Micronised potassium sorbate is a fine powder for use in antimicrobial polymer films and as a component of formulated VCI (Volatile Corrosion Inhibitor) packaging films. Its controlled particle size supports uniform incorporation into film formulations.

Product identification

Item	Description
Chemical name	Potassium sorbate
CAS number	24634-61-5
EC number	246-376-1
Molecular formula	$C_6H_7KO_2$
Grade	POTASSIUM SORBATE MICRONISED POWDER
HS code	2916.19.90

Technical specifications

Property	Specification	Test method
Appearance	White or off-white crystalline powder	Visual
Odour	Odourless	Observation
Thermal behaviour	Approximately 270°C; decomposes	Open capillary observation
pH, 1% aqueous solution	7.0–8.5	pH meter
Purity, dry basis	99.0–101.0%	Titration
Loss on ignition	Maximum 1%	Thermogravimetry
Heavy metals (Pb, Hg, As)	Maximum 20 ppm	AAS / ICP / titration
Particle size, D99–100	Maximum 20 µm	Laser diffraction

Applications

Antimicrobial polymer films: POTASSIUM SORBATE MICRONISED POWDER can be dispersed in polymer films to provide antimicrobial activity under suitable conditions. Its fine particle size supports uniform distribution and reduces visible coarse particles. Performance depends on the film formulation and conditions of use.

VCI packaging films: POTASSIUM SORBATE MICRONISED POWDER can be incorporated as a component of a formulated corrosion-inhibitor system in protective polymer films. Corrosion protection depends on the complete formulation; the metal being protected and the packaging conditions.

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Suitable resin systems

POTASSIUM SORBATE MICRONISED POWDER is primarily intended for **polyethylene-based films**, including LDPE, LLDPE, HDPE and compatible PE/EVA blends. Use in PVC or polypropylene films depends on the actual processing temperature, residence time and finished-film performance.

The reported decomposition temperature is approximately **270°C**. A processing temperature **below 240°C** provides the 30°C temperature margin used for product selection. Lower processing temperatures are preferred where the resin and film process permit. POTASSIUM SORBATE MICRONISED POWDER is not recommended for resin processes that reach or exceed 240°C without specific thermal and performance evaluation.

Storage and handling

Store in closed packaging in a cool, dry place, protected from heat and humidity. Control powder dust during handling and micronisation. Refer to the safety data sheet for handling instructions.

Regulatory information

Suitability for food-contact, medical or other regulated applications depends on the complete film formulation and intended use. Assess the finished article against the applicable requirements.

Date of Creation: September 2026

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