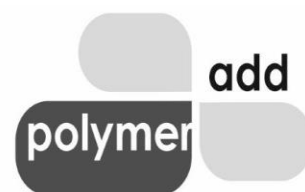


Polymer Add (Thailand) Co.,Ltd.

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 BAST-6865

PRODUCT CLASSIFICATION

Chemical Name	BARIUM STEARATE (MICRONIZED)
Grade Name	BAST-6865
CAS No.	6865-35-6
HS Code	2915.70.00
EINECS No.	229-962-1
Molecular Formula	$\text{Ba}(\text{C}_{18}\text{H}_{35}\text{O}_2)_2$
Molecular Weight	~704.27 g/mol
Synonyms	Stearic acid barium salt, Barium distearate

PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value / Description	Test Method
Appearance	White to off-white powder	Visual
Odor	Odorless or faint fatty odor	Sensory
Free Fatty Acid	≤ 3.0% (as stearic acid)	Titration
Barium Content (as Ba)	25 – 28%	Complexometric
Loss on Drying	≤ 2.0%	Oven drying (105 °C)
Melting Point	~200 °C (softens/decomposes)	Capillary
Solubility in Water	Insoluble	Literature
Solubility in Organic Solvents	Soluble in hot oils and hydrocarbons	Visual
Bulk Density	0.25 – 0.45 g/cm ³	Tapped Density
Particle Size (D50)	6 – 10 µm	Laser Diffraction
Particle Size (D99)	< 25 µm	Laser Diffraction

➤ Commercial values may vary based on process; above data are typical for micronized technical grade.

HEAVY METALS (EU REGULATION 10/2011 – CONTENT LIMITS IN ADDITIVES)

Element	Typical Limit	Test Method
Lead (Pb)	≤ 5 ppm	ICP, AAS, XRF
Cadmium (Cd)	≤ 1 ppm	ICP, AAS
Mercury (Hg)	≤ 1 ppm	ICP, CV-AAS
Arsenic (As)	≤ 1 ppm	ICP, AAS

USES / APPLICATION

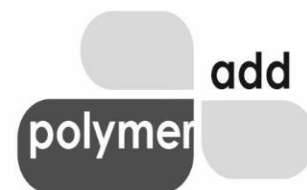
Industry	Commercial Application / Uses (Micronized Grade)
Plastics / PVC	Heat stabilizer and lubricant in rigid and flexible PVC formulations
Paints & Coatings	Flatting agent and suspension aid
Inks	Dispersing and anti-settling additive

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



Greases	Thickening agent in barium-based greases
Rubber	Processing aid and mold release component

US FDA 21 CFR LISTING

CFR Section	Title / Description
175.105	Adhesives – for indirect food contact
178.2010	Stabilizers and lubricants for polymers (barium salts of fatty acids, with restrictions)
178.3910	Surface lubricants in manufacture of metallic food-contact articles

COLOUR IMPACTING IMPURITIES

Element	Typical Max Limit (ppm)	Test Method
Iron (Fe)	≤ 100 ppm	ICP, AAS, XRF
Manganese (Mn)	≤ 30 ppm	ICP, AAS, XRF
Copper (Cu)	≤ 20 ppm	ICP, AAS, XRF
Nickel (Ni)	≤ 20 ppm	ICP, AAS, XRF
Chromium (Cr)	≤ 10 ppm	ICP, AAS, XRF

PRODUCT PERFORMANCE IMPACTING IONS / IMPURITIES

Ion / Element	Typical Max Limit (ppm)	Test Method
Sodium (Na)	≤ 100 ppm	ICP, AAS, XRF
Potassium (K)	≤ 100 ppm	ICP, AAS, XRF
Calcium (Ca)	≤ 300 ppm	ICP, AAS, XRF
Magnesium (Mg)	≤ 200 ppm	ICP, AAS, XRF
Chloride (Cl ⁻)	≤ 100 ppm	Ion Chromatography
Sulfate (SO ₄ ²⁻)	≤ 100 ppm	Ion Chromatography

Disclaimer:

This product is intended for industrial use only. Food-contact and regulated applications require specific compliance documentation. Not recommended for use in pharmaceutical or medical devices. All values listed are typical and may vary by batch unless specified in a commercial agreement.

Month of Creation: July 2025

Month of Review: July 2027