

Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalaremprikiat, 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 SB-885

PRODUCT CLASSIFICATION

Chemical Name	SUCROSE BENZOATE (MICRONIZED)
Grade Name	SB-885
CAS No	12738-64-6
HS Code	2916.31.90
EINECS No	235-795-5
Molecular Formula	$C_{34}H_{30}O_{11}$
Molecular Weight	630.60 g/mol
Synonyms	Sucrose tetrabenzoate, Sucrose polybenzoate

TECHNICAL PROPERTIES

Property	Typical Value / Description	Test Method
Appearance	White to off-white powder	Visual
Odor	Faint sweet odor	Sensory
Melting Point	83 – 88 °C	Capillary Method
Moisture Content	≤ 1.0%	Oven Drying at 105 °C
Bulk Density	0.25 – 0.40 g/cm ³	Tapped Density
Solubility in Water	Insoluble	Visual Observation
Solubility in Organic Solvents	Soluble in acetone, esters, chlorinated solvents	Gravimetric/Visual
pH (10% in ethanol-water)	5.5 – 7.0	pH Meter
Particle Size (D50)	Typically, 8 – 12 µm	Laser Diffraction
Particle Size (D99)	Typically, < 30 µm	Laser Diffraction

➤ The commercial specification may include only a subset of these values. Listed data is for technical reference.

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

Element	Typical Max Limit (ppm)	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)
Bioplastics	Green plasticizer for PHA, PLA, PHB; enhances flexibility and processability
Inks & Coatings	Plasticizer for nitrocellulose inks and coatings; improves gloss and hardness
Adhesives	Used in high-performance hot melt adhesives and solvent-based systems

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Plastics	Modifier in specialty polymer blends requiring low volatility
Films	Additive for sustainable film formulations requiring biodegradability

US FDA 21 CFR LISTING

CFR Section	Title / Description
175.105	Adhesives – permitted for use in food packaging adhesives
176.170	Components of paper and paperboard in contact with aqueous and fatty foods
177.1200	Cellophane – indirect food additive

COLOUR IMPACTING IMPURITIES

Element	Typical Max Limit (ppm)	Test Method
Iron (Fe)	≤ 150 ppm	ICP, AAS, XRF
Manganese (Mn)	≤ 50 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 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)	≤ 200 ppm	ICP, AAS, XRF
Magnesium (Mg)	≤ 150 ppm	ICP, AAS, XRF
Chloride (Cl ⁻)	≤ 50 ppm	Ion Chromatography
Sulphate (SO ₄ ²⁻)	≤ 50 ppm	Ion Chromatography

Product Disclaimer:

This product is intended for industrial use. Data presented is typical and not binding specification unless otherwise agreed in writing. Suitability should be evaluated under end-use conditions. No liability for misuse. Not for use in pharmaceutical or implant-grade applications.

Month of Creation: July 2025

Month of Review: July 2027