

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

ETHYLENE BIS STEARAMIDE (MICRONIZED)

PRODUCT CLASSIFICATION

PARAMETER	DETAILS
Chemical Name	ETHYLENE BIS STEARAMIDE (MICRONIZED)
Grade Name	EBS-802
CAS No	110-30-5
HS Code	2924.19.90
EINECS No	203-755-6
Molecular Formula	$C_{38}H_{76}N_2O_2$
Molecular Weight	592.02 g/mol
Synonyms	EBS, Ethylene bis(octadecanamide), N,N'-Ethylenebis(stearamide)

TECHNICAL PROPERTIES

PROPERTY	TYPICAL VALUE / DESCRIPTION	TEST METHOD
Appearance	White to off-white free-flowing powder	Visual
Odor	Practically odorless	Sensory
Melting Point	140 – 145 °C	Capillary Method
Moisture Content	≤ 0.5 %	Oven Drying at 105 °C
Bulk Density	0.20 – 0.40 g/cm ³	Tapped Density
Solubility in Water	Insoluble	Visual Observation
Solubility in Organic Solvents	Insoluble; dispersible in molten polymers	Gravimetric / Visual
pH (10 % slurry in ethanol-water)	6.5 – 8.0	pH Meter
Particle Size (D50)	Typically 6 – 10 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

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USES / APPLICATION

INDUSTRY	COMMERCIAL APPLICATION / USES (MICRONIZED GRADE)
Plastics & Masterbatches	Internal lubricant, processing aid, dispersion improver
Injection-Moulded Parts	Mold-release and cycle-time improvement
Engineering Polymers	Friction reduction without surface blooming
Pigment Concentrates	Improves pigment wet-out and dispersion
Powder Coatings	Flow aid and surface smoothness enhancer

US FDA 21 CFR LISTING

CFR SECTION	TITLE / DESCRIPTION
175.105	Adhesives – permitted for indirect food contact
176.170	Paper and paperboard components for food contact
176.180	Paper and paperboard components for dry food
178.2010	Antioxidants and stabilizers for polymers
178.3910	Surface lubricants used in food packaging machinery

COLOUR-IMPACTING IMPURITIES

ELEMENT	TYPICAL MAX LIMIT (ppm)	TEST METHOD
Iron (Fe)	≤ 150 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 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 applications**. Values listed are **typical and not specifications** unless explicitly agreed upon in writing. Product suitability should be evaluated under actual processing conditions. **Not intended for pharmaceutical or biomedical use.**

Month of Creation: January 2026

Month of Review: January 2028