

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

EVA-MICRONISED

PRODUCT CLASSIFICATION

Parameter	Description
Chemical Name	Ethylene-Vinyl Acetate Copolymer (18–28 % VA)
Grade Name	EVA MICRONISED
CAS No.	24937-78-8
HS Code	3901.30.00
EINECS No.	607-457-0
Molecular Formula	$(C_2H_4)_x(C_4H_6O_2)_y$
Molecular Weight	~100,000 – 400,000 g/mol (typical)
Synonyms	EVA Resin, Ethylene-Vinyl Acetate Polymer, Ethene-Vinyl Acetate Copolymer

PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value / Description	Test Method
Appearance	Translucent to milky-white granules or powder	Visual
Odor	Mild, non-residual odor	Sensory
Vinyl Acetate Content	18 – 28 wt %	ASTM D5599 / IR
Melt Flow Index (190 °C / 2.16 kg)	0.5 – 30 g / 10 min (grade dependent)	ASTM D1238
Density @ 25 °C	0.93 – 0.95 g/cm ³	ASTM D1505
Softening Point (Ring & Ball)	70 – 90 °C	ASTM E28
Tensile Strength @ Break	6 – 15 MPa	ASTM D638
Elongation @ Break	400 – 900 %	ASTM D638
Shore Hardness (A)	80 – 95	ASTM D2240
Moisture Content	≤ 0.3 %	Oven drying (105 °C)
Particle Size (Micronized Grade)	D ₅₀ < 30 µm (if powdered)	Laser Diffraction

Commercial product specification may vary depending on melt-index grade; above values are for technical reference only.

HEAVY METALS (EU REG. 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 / Use
Plastics & Films	Flexible films, shrink wraps, wire & cable insulation, impact-modified blends
Adhesives	Hot-melt adhesives, pressure-sensitive adhesives, packaging and footwear adhesives
Compounding	Modifier in PE/PP blends for toughness, clarity, and stress-crack resistance
Masterbatch	Carrier resin for pigments, fillers, and additives

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Foams & Sheets	Closed-cell foams, shoe soles, and soft molded parts
Micronized Grade	Used in specialty dry-blend formulations and polymer-additive dispersion systems

US FDA 21 CFR LISTING

CFR Section	Title / Description
177.1350	Ethylene-Vinyl Acetate Copolymers – components of food-contact materials
175.105	Adhesives for food packaging – permitted with restrictions
177.1520	Polyethylene and copolymers in contact with food – indirect additives
178.2010	Antioxidants and stabilizers for polymers (where applicable)

COLOUR-IMPACTING IMPURITIES

Element	Typical Max Limit (ppm)	Test Method
Iron (Fe)	≤ 100 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

PERFORMANCE-IMPACTING IONS / IMPURITIES

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

Disclaimer:

This product is intended for industrial and polymer-processing applications only. Compliance for food-contact or medical use must be verified separately. Typical values are not guaranteed specifications and may vary by production lot.

Month of Creation: November 2025

Month of Review: November 2027