Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalaremprakiat, 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

POLYETHYLENE WAX (LDPE BASED, MICRONIZED)

PRODUCT CLASSIFICATION

Item	Description
Chemical Name	Polyethylene Wax (LDPE Based)
Grade Name	PEW-LD (Micronized)
CAS No.	9002-88-4
HS Code	3404.90.00
EINECS No.	Not Applicable (Polymer)
Molecular Formula	$(C_2H_4)n$
Molecular Weight	~1,000 – 5,000 g/mol (typical range)
Synonyms	Low Density Polyethylene Wax, LDPE Wax

PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value / Description	Test Method
Appearance	White micronized powder	Visual
Odor	Odorless	Sensory
Density	0.91 – 0.94 g/cm^3	ASTM D1505
Melting Point	95 – 110 °C	DSC
Viscosity (140 °C)	50 – 300 cps	Brookfield
Acid Value	≤ 5 mg KOH/g	Titration
Penetration (25 °C)	≤ 5 dmm	ASTM D1321
Moisture	≤ 0.5%	Oven drying
Bulk Density	0.30 – 0.50 g/cm^3	Tapped Density
Particle Size (D50)	5 – 10 µm	Laser Diffraction
Particle Size (D90)	< 30 µm	Laser Diffraction

➢ The commercial product specification may include only a selection of the properties listed above; this additional data is provided for general technical reference.

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

Element	Typical Limit	Test Method
Lead (Pb)	≤ 2 ppm	ICP, AAS
Cadmium (Cd)	≤ 1 ppm	ICP, AAS
Mercury (Hg)	≤ 1 ppm	ICP, CV-AAS
Arsenic (As)	≤ 1 ppm	ICP, AAS

USES / APPLICATION (MICRONISED / SOLID-STATE RELEVANT)

Polymer Add (Thailand) Co.,Ltd.
Office - 106, Chalaremprakiat, 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

Industry	Commercial Application / Uses
Polyolefins (PE, PP)	Internal and external lubricant; improves melt flow, reduces viscosity, and enhances surface finish
PVC Processing	External lubricant; reduces die build-up, improves fusion control, and enhances surface smoothness
Masterbatch & Compounds	Dispersing aid for pigments and fillers; improves color uniformity and reduces agglomeration
Engineering Plastics	Processing aid for improved flow and reduced torque during compounding
Rubber Processing	Processing aid and mold release agent; improves surface finish and reduces sticking
Powder Processing & Dry Blends	Flow aid and anti-caking agent; enhances powder handling and feeding consistency
Functional Fillers & Mineral Systems	Surface modifier; improves compatibility and dispersion of fillers in polymer matrices
Additive One-Pack Systems	Component in micronised additive blends; improves homogeneity and dosing accuracy
Coatings (Powder Systems)	Slip and abrasion resistance modifier; improves surface properties and application behavior
Ink & Surface Applications (Solid Form)	Provides slip, scratch resistance, and surface protection in solid formulations

US FDA 21 CFR LISTING

CFR Section	Title / Description
21 CFR 177.1520	Polyethylene resins are listed for use in food-contact applications under specified conditions.

For micronised wax and additive applications, compliance with specific use conditions and end-use regulations must be verified by the user.

DISCLAIMER

This product is intended for industrial use in polymer, coating, or specialty chemical applications. It is not recommended for pharmaceutical or direct food use unless separately certified. Compliance with food-contact and regional regulatory approvals must be verified by the user. Values above are typical for general reference and not binding specifications unless explicitly confirmed in writing.

Month of Creation: July 2025
Month of Review: July 2027