

Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalaremprikat, 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



SAFETY DATA SHEET (MSDS)

LLDPE RESIN – ROTATIONAL MOULDING GRADE (MFR ≈ 6)

SECTION 1: Identification of the substance and of the company

Product Name:

LLDPE Resin – Rotational Moulding Grade

Chemical Name:

Linear Low-Density Polyethylene (Ethylene– α -olefin copolymer)

CAS Number:

9002-88-4

Recommended Use:

Industrial use only. Polymer powder for rotational moulding and technical plastic applications.

Restrictions on Use:

Not intended for medical, pharmaceutical, or food-contact applications unless separately certified.

Supplier / Processor:

Polymer Add Thailand Co., Ltd.

Thailand

Role of Company:

Processor and supplier of polymer powders. Polymer Add Thailand does **not manufacture** the base LLDPE resin.

SECTION 2: Hazards Identification

GHS Classification:

Not classified as hazardous.

Label Elements:

No label elements required.

Other Hazards:

- Dust may cause mechanical irritation to eyes or respiratory tract
- Spilled material may create slip hazard
- Molten polymer may cause thermal burns

SECTION 3: Composition / Information on Ingredients

Substance: Polyethylene

Component	CAS No.	Concentration
Linear Low-Density Polyethylene	9002-88-4	≥ 99 %

No hazardous ingredients according to GHS criteria.

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SECTION 4: First-Aid Measures

Inhalation:

Move to fresh air. Seek medical attention if symptoms persist.

Skin Contact:

Wash with soap and water. For molten polymer, cool rapidly and seek medical assistance.

Eye Contact:

Rinse cautiously with clean water for several minutes. Remove contact lenses if present.

Ingestion:

Rinse mouth. Do not induce vomiting. Seek medical advice if discomfort occurs.

Most Important Symptoms:

No known significant acute or delayed effects.

SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Water spray, foam, dry chemical powder, carbon dioxide (CO₂)

Specific Hazards:

Combustion may produce carbon monoxide, carbon dioxide, and dense smoke.

Protective Equipment:

Self-contained breathing apparatus recommended.

SECTION 6: Accidental Release Measures

Personal Precautions:

Avoid dust generation. Prevent slipping hazard.

Environmental Precautions:

Prevent entry into drains and waterways.

Cleanup Methods:

Sweep or vacuum using dust-controlled equipment. Collect in suitable containers.

SECTION 7: Handling and Storage

Handling:

Avoid excessive dust formation. Provide adequate ventilation.

Storage:

Store in a cool, dry place away from heat and direct sunlight.

Incompatible Materials:

Strong oxidising agents.

SECTION 8: Exposure Controls / Personal Protection

Occupational Exposure Limits:

No exposure limits established for polyethylene.

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Personal Protective Equipment:

- Eye protection: Safety glasses
- Skin protection: Protective work clothing
- Respiratory protection: Not normally required under adequate ventilation

Hygiene Measures:

Follow standard industrial hygiene practices.

SECTION 9: Physical and Chemical Properties

Property	Typical Value
Physical form	Powder
Colour	Natural / off-white
Odour	Odourless
Melting point	~120–125 °C
Flash point	~360 °C
Density	~0.935 g/cm ³
Water solubility	Negligible
Auto-ignition temperature	~360 °C
Decomposition temperature	>300 °C

SECTION 10: Stability and Reactivity

Reactivity:

No hazardous reactions under normal use.

Chemical Stability:

Stable under recommended storage and handling conditions.

Incompatible Materials:

Strong oxidising agents.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, smoke.

SECTION 11: Toxicological Information

Acute Toxicity:

No data indicating toxicity.

Skin / Eye Irritation:

Not expected.

Sensitisation:

Not expected.

Carcinogenicity / Mutagenicity:

Not classified.

SECTION 12: Ecological Information

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Ecotoxicity:

No data available.

Persistence and Degradability:

Not readily biodegradable.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

Low (solid polymer).

SECTION 13: Disposal Considerations

Dispose of in accordance with local regulations. Recycling is preferred where facilities exist.

SECTION 14: Transport Information

UN Number:

Not regulated.

Transport Classification:

Not classified as dangerous goods (ADR / IMDG / IATA).

SECTION 15: Regulatory Information

- CAS No.: 9002-88-4
- Polyethylene polymers are listed on major global chemical inventories (TSCA, DSL, AICS, ENCS, IECSC, KECI)
- REACH: Polymer exemption applies
- Industrial use only

SECTION 16: Other Information

Revision: 1.0

Date: 2025

Disclaimer:

The information contained in this Safety Data Sheet is based on available technical data and industry knowledge for polyethylene resins. Polymer Add Thailand Co., Ltd. provides processing and supply services only and makes no warranty, express or implied, regarding suitability for any specific application. Users are responsible for ensuring compliance with applicable laws and regulations.