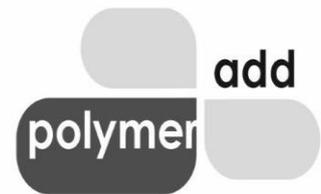


# Polymer Add (Thailand) Co.,Ltd.

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

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## TECHNICAL DATA SHEET

### LLDPE RESIN – ROTATIONAL MOULDING GRADE (MFR $\approx$ 6)

#### 1. Product Identification

**Product Name:**

LLDPE Resin – Rotational Moulding Grade

**Chemical Name:**

Linear Low-Density Polyethylene (Ethylene– $\alpha$ -olefin copolymer)

**CAS Number:**

9002-88-4

**Product Description:**

Linear Low-Density Polyethylene (LLDPE) resin supplied in powder form for rotational moulding applications, offering balanced melt flow, impact resistance, and process stability for medium- to thick-wall moulded articles.

#### 2. Company Information

**Processing & Supply:**

Polymer Add Thailand Co., Ltd.

Thailand

**Role of Company:**

Polymer Add Thailand is a processor and supplier of polymer powders. The company does **not** manufacture the base LLDPE resin.

**Base Resin Origin:**

Produced by a third-party polymer manufacturer. Specific base resin grade details can be disclosed upon request for technical evaluation.

#### 3. Typical Applications

- Rotational moulded water tanks
- Industrial containers and bins
- Automotive rotational moulded components
- Agricultural tanks and equipment housings
- Outdoor storage and utility products
- General-purpose rotomoulding applications

#### 4. Processing Method

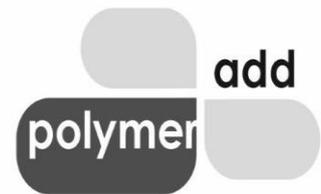
- Rotational moulding (rotomoulding)
- Powder-based moulding processes

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- Secondary compounding or blending (if required)

## 5. Typical Physical Properties

Property	Typical Value	Test Method
Melt Flow Rate (190 °C / 2.16 kg)	~6 g/10 min	ASTM D1238
Density	~0.935 g/cm <sup>3</sup>	ASTM D792
Melting Point	~120–125 °C	DSC
Vicat Softening Temperature	~110 °C	ASTM D1525
Tensile Strength at Yield	Typical LLDPE range	ASTM D638
Elongation at Break	High	ASTM D638
Impact Resistance	Excellent	ASTM D256

*Typical values only; not specifications.*

## 6. Powder Characteristics (Processed Grade)

Parameter	Description
Physical Form	Free-flowing powder
Colour	Natural / off-white
Particle Size	As per customer requirement
Bulk Density	Application dependent

## 7. Mechanical Performance (General Guidance)

- Good toughness and impact resistance
- Balanced stiffness and flexibility
- Good environmental stress crack resistance
- Suitable for large and thick-wall moulded articles

## 8. Thermal Properties

- Suitable for standard rotational moulding temperature profiles
- Good thermal stability during normal processing cycles
- Not intended for continuous high-temperature structural applications

## 9. Chemical Resistance

- Resistant to water, dilute acids, and alkalis
- Limited resistance to strong oxidising agents
- Resistance to hydrocarbons should be verified by end-user testing

## 10. Storage and Handling

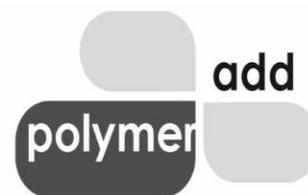
- Store in a cool, dry location
- Protect from direct sunlight and heat

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- Prevent contamination with foreign materials
- Follow standard industrial handling practices for polymer powders

## 11. Safety Information

- Not classified as hazardous
- Dust generation should be minimised during handling
- Refer to the corresponding Safety Data Sheet (SDS) for detailed safety guidance

## 12. Packaging

- 25 kg bags
- Jumbo bags (subject to agreement)
- Custom packaging available upon request

## 13. Shelf Life

Minimum **12 months** when stored under recommended conditions.

## 14. Regulatory Status

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

## 15. Disclaimer

The information contained in this Technical Data Sheet is based on typical data from base resin manufacturer documentation and Polymer Add Thailand's processing experience. The values provided are for guidance only and do not constitute a specification. Polymer Add Thailand Co., Ltd. makes no warranty, express or implied, regarding suitability or fitness for any particular application. Users must conduct their own testing to determine product suitability for their intended use.

## 16. Revision Information

**Document Type:** Technical Data Sheet

**Revision:** 1.0

**Date:** 2025