

# **AVE** **PLASTIC** **RECYCLING**

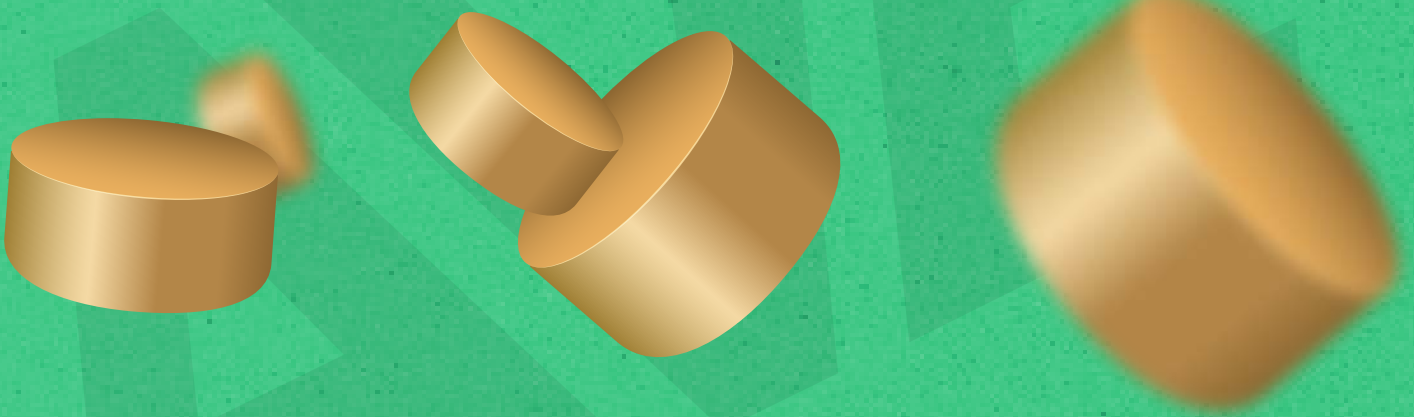
## **PRODUCT DESCRIPTION**





# GENERAL OVERVIEW

LDPE (Low-Density Polyethylene) recycled plastic granulate is one of the key raw materials for sustainable industrial production. This environmentally friendly secondary raw material is mainly produced from films and other polyethylene waste, processed with modern sorting and cleaning technologies.



Recycled LDPE granulate is an excellent choice for applications where aesthetics are not the primary concern, but cost-efficiency, flexibility, and environmental impact reduction are important.

## ADVANTAGES:

- Economical alternative to virgin plastic
- Good mechanical and processing properties
- Excellent flexibility and pliability
- Good chemical resistance (to acids, alkalis, moisture)
- Supports the principles of a circular economy
- Available in various qualities and particle sizes, depending on the source material's selection, cleanliness, and production requirements
- Suitable for film production, injection molding, extrusion, and other low to medium demand technical and packaging purposes

Choosing recycled LDPE granulate is not only economical but also a responsible decision — it promotes the recycling of plastic waste while providing a reliable raw material for industrial processing.

# APPLICATIONS

Recycled LDPE granulate can be used in a wide range of industrial processing technologies:

- Film production: garbage bags, cover films, agricultural films, simple packaging materials
- Injection molding: low-demand technical parts, storage boxes, casing components
- Extrusion: pipes, hoses, protective cable coverings
- Other uses: raw material for recycled products, filler for composites

The method of use depends on the granulate's quality, cleanliness, and the expectations of the final product.





# OUR PRODUCTS

Our company offers two types of high-quality recycled LDPE (Low-Density Polyethylene) regranulate:

Natural and Colored variants. Our products provide a reliable raw material for various industrial processing applications, including injection molding, film production, or other plastic industry uses.

## NATURAL LDPE REGRANULATE

- Lighter in color, homogeneous granule structure
- Primarily made from household and cleaned industrial LDPE waste
- Excellent for producing light or transparent products



## COLORED LDPE REGRANULATE

- Mixed color, produced from colored LDPE waste
- Ideal for manufacturing films, bags, industrial packaging materials where color is not a critical factor



# MANUFACTURING TECHNOLOGY

The regranulation process takes place on a modern, high-performance 1512 TVEplus EREMA production line. The built-in 130–150 µm screen disc enables high-level contamination removal, ensuring the cleanliness and consistent quality of the granulate. The machine's advanced filtering system and vacuum degassing are particularly effective for processing LDPE materials.

Property	Natural LDPE	Colored LDPE	Unit	Method
Melting point	120–128	120–128	°C	ISO 11357
MFI (190°C / 21.6 kg)	34,6	31,2	g/10 min	ISO 1133
Density	0.929	0.946	g/cm <sup>3</sup>	ISO 1183
Contamination (max.)	< 0.05%	< 0.1%	-	Internal QC
Moisture content (max.)	0,032	0,085	%	ISO 1133-1:2022
Particle size	~3–5 mm	~3–5 mm	mm	-

## PACKAGING AND STORAGE

The regranulates are stored in 1000 kg BigBag sacks placed on pallets. This packaging is ideal for storage, internal logistics, and transportation.



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