



POLIETILENO

PE

Use

Polyethylene (PE) is primarily used as a versatile thermoplastic material for the manufacturing of packaging solutions, films, containers, pipes, and molded industrial components. Due to its chemical resistance, durability, and ease of processing, polyethylene is widely adopted in industries such as packaging, construction, agriculture, logistics, and consumer goods manufacturing. Additionally, polyethylene plays a key role in industrial applications requiring lightweight, flexible, and cost-efficient polymer solutions.

Packaging

Supplied in pelletized or granulated form, packaged in 25 kg bags, 1,000 kg big bags, or bulk containers. Packaging systems are designed to preserve material integrity, facilitate handling, and comply with international storage and transport standards.

Characteristics

Physical characteristics		Chemical Characteristics	
Property	Value	Component	Specification
Appearance:	White to translucent solid pellets or granules	Polyethylene ($-\text{CH}_2-$ CH_2-) _n	$\geq 99\%$
Odor	Odorless	Additives (stabilizers, antioxidants)	Trace amounts
Boiling Point	$\sim 110 - 135^\circ\text{C}$ (depending on grade)	Moisture Content	$\leq 0.1\%$
Density	$\sim 0.91 - 0.97 \text{ g/cm}^3$		
Solubility	Insoluble in water		

