Injection Molding

Polyethylene (PE)

Key Features

Abrasion resistance • Chemical resistance • Wear resistance • Impact resistance • Density < 1g/cm³ • Flame retardancy

Product Description

Applications

End-use parts • Automotive • Consumer good • Packaging • Construction

Polyethylene is a high-performance resin known for its excellent wear resistance, low friction coefficient, and good chemical resistance. This injection molding material is widely used in the automotive industry for sliding components and bushings, industrial applications like conveyor parts and gears, consumer goods such as sliding doors and furniture components, packaging for wear-resistant materials, and construction for protective barriers and sliding elements.

Properties*

Tensile strength	41 MPa
Elongation at break	12%
Flexural strength	37 MPa
Flexural modulus	1,590 MPa
Izod impact strength	185 J/m
Heat deflection temperature	80°C
Vicat softening temperature	130°C
Density	0.967 g/cm ³
Hardness	53 (Rockwell)
Flame retardancy	UL 94-HB

*Based on material LUBMER™ LS4000

Reference

For more detailed source information, please consult the original document linked <u>here</u>. We encourage users to verify the data's relevance and suitability for their specific needs.



