

LDPE (Low-density polyethylene)

Key Features

Flexibility • Chemical resistance • Impact resistance • Density < 1g/cm³

Applications

End-use products • Medicine • Consumer goods • Packaging • Construction

Product Description

Low-Density Polyethylene (LDPE) is a lightweight, flexible resin known for its excellent chemical resistance, good impact strength, and clarity. Ideal for injection molding, this material is widely used in the packaging industry for plastic bags and films, agriculture for greenhouse and mulch films, construction for moisture barriers and insulation, consumer goods like squeeze bottles and toys, and healthcare for disposable gloves and medical packaging.

Properties*

Tensile strength	8 MPa
Elongation at break	120%
Flexural modulus	130 MPa
Melting temperature	102°C
Ring and ball softening point	117°C
Density	0.914 g/cm ³
Hardness	95A

*Based on material AT® 190

Reference

For more detailed source information, please consult the original document linked [here](#). We encourage users to verify the data's relevance and suitability for their specific needs.

