LDPE resins

The flexibility of ExxonMobil Chemical’s low density polyethylene (LDPE) resin technology allows us to produce an extensive grade slate, ranging from homopolymers to high density grades.

These LDPE resins offer manufacturers low production costs for a wide range of products with different levels of strength, stretch, clarity and puncture resistance. With this grade slate, manufacturers can produce films for thousands of applications, including:

* Blown and cast film
* Extrusion and coating
* Rotational and injection molding

LDPE resin grades are branched polyethylenes, which provide easier processing, higher melt strength and superior optical properties compared with linear polyethylenes. The very-low-haze grades provide excellent optical properties. The branched structure of LDPE also makes it ideal to serve as the main resin component in shrink film structures.

These attributes of LDPE resins are often exploited in synergistic blends. For example, the addition of 5% to 10% LDPE to [Exceed™ mPE resins](http://www.exxonmobilchemical.com.cn/Chem-English/brands/polyethylene-exceed-mpe.aspx?ln=productsservices)1 significantly improves the processability and clarity of Exceed mPE, while the addition of 20% to 30% Exceed mPE resins to LDPE resins greatly improves melt strength.

The LDPE resins cover general-purpose and high-performance film applications. ExxonMobil Chemical currently has among the highest-density LDPE resin grades available in the market. These grades are especially suited to applications such as over-wrap, where a combination of high stiffness and clarity is required.

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