

LDPE**LDPE LD251****LOW DENSITY POLYETHYLENE (LDPE)**

LD251 is a low-density polyethylene (LDPE) resin developed for extrusion coating and lamination, offering low neck-in, fast coating speeds, and good heat-sealability for food, liquid, and non-woven packaging substrates.

Typical Application

- Extrusion coating
- Extrusion lamination
- Food and liquid packaging
- Non-woven coating

Product Characteristics

- Low neck-in for dimensionally stable high-speed coating
- Good heat-sealability at high line speeds
- Suitable for laminated packaging paper, cups, bowls, and woven bags

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow (190°C/2.16kg)	ASTM D1238	8	g/10 min
Density	ASTM D1505	0.916	g/cm ³
Melting Temperature, Peak		104	°C

Processing Guidelines

In pilot coating trials, this grade achieved a coating speed of approximately 230 m/min at 35 rpm constant output, with a neck-in of about 4.0 cm at 50 m/min and 3.8 cm at 100 m/min line speed (315°C melt temperature).

1. The coating-speed, neck-in, and peak-melting figures are drawn from a distributor technical summary for this grade and numerically align with published reference data for an equivalent extrusion-coating LDPE grade; treat as indicative pending a grade-specific certificate of analysis.
2. Typical values per the producer's published family data; grade-specific certificate of analysis supplied per lot at order.