

LDPE**LDPE POLYMER-E C7100****LOW DENSITY POLYETHYLENE (LDPE)**

This is a low-density polyethylene resin engineered for extrusion coating, lamination, and wire insulation applications. The grade offers the following characteristics:

Typical Application

- Extrusion coating and lamination
- Wire insulation

Product Characteristics

- Excellent draw-down
- Excellent adhesion
- Low neck-in
- High line-speed

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Index	ASTM D1238	7.3	g/10 min
Density	ASTM D1505	0.917	g/cm ³
1% Secant Modulus, Molded	ASTM D638	110	kg/cm ²
Ultimate Tensile Strength, Molded	ASTM D638	500	kg/cm ²
Low Temperature Brittleness	ASTM D746	<-70	°C
Vicat Softening Point	ASTM D1525	85	°C
Hardness, Shore D	ASTM D2240	48	
Heat Deflection Temperature (66 psi)	ASTM D648	48	°C

Processing Guidelines

Tensile, optical, and impact strength properties on film samples are measured on blown film extruded at 1.25 mil (32 micron) and 7 mil (180 micron) thickness on a 2.16 in (50 mm) extruder with a 26:1 L/D screw at 330°F (165°C) and a blow-up ratio of 2.1:1, with the exception of 420°F (215°C) and a blow-up ratio of 1.8:1 for heavy-duty sack applications.

The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.