

LLDPE**LLDPE R7149U****LINEAR LOW-DENSITY POLYETHYLENE (LLDPE)**

This is a mid-flow, butene-comonomer linear low-density polyethylene (LLDPE) grade developed for rotational moulding. It combines high tensile strength, toughness and thermal stability with good environmental stress crack resistance (ESCR), impact resistance at low temperatures and low warpage, giving processors a wide operating window for demanding rotomoulded parts.

Typical Application

- Roadblocks and traffic barriers
- Outdoor playground equipment
- Rotationally moulded storage tanks

Product Characteristics

- High tensile strength, toughness and thermal stability
- Good environmental stress crack resistance (ESCR)
- Impact resistance at low temperatures with low warpage
- Balanced mid-range melt flow for uniform wall build-up in complex moulds

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Mass-Flow Rate (190°C/2.16kg)	GB/T 3682.1-2018	3.5-5.3	g/10 min
Density	GB/T 1033.2-2010	0.9310-0.9370	g/cm ³
Tensile Stress at Yield	GB/T 1040.2-2006	≥12.0	MPa
Nominal Tensile Strain at Break	GB/T 1040.2-2006	≥100	%

1. 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.
2. Values reflect the producer's standard grade tolerance range; a representative production lot tested within this range at melt flow 4.93 g/10 min, density 0.9336 g/cm³, tensile stress at yield 14.9 MPa and elongation at break 426%. Written statement of compliance supplied per production lot at order.