

LLDPE**LLDPE 7149U****LINEAR LOW-DENSITY POLYETHYLENE (LLDPE)**

7149U is a butene-comonomer linear low-density polyethylene (LLDPE) resin specially designed for rotational molding. The material combines excellent processability with high impact strength, good stiffness, and high elongation at break, along with good chemical resistance and environmental stress cracking resistance, making it suitable for producing large, complex parts that require both strength and impact durability.

Typical Application

- Rotomoulded fuel tanks
- Water tanks and storage tanks
- IBC ton barrels
- Road barriers and traffic management products
- Large outdoor toys and complex rotomoulded parts

Product Characteristics

- Excellent processability for rotational molding
- High impact strength and good stiffness
- High elongation at break
- Good chemical resistance
- Good environmental stress cracking resistance (ESCR)

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Mass-Flow Rate (190°C/2.16kg)	GB/T 3682.1	4.70	g/10 min
Density (23°C)	GB/T 1033.2	0.9344 (spec range 0.9310–0.9370)	g/cm ³
Tensile Stress at Yield	GB/T 1040.2	15.1 (min ≥12.0)	MPa
Nominal Strain at Break	GB/T 1040.2	173 (min ≥100)	%
Color Grain and Black Grain	SH/T 1541.1	0 (max ≤40)	g/kg

1. Physical property values above are taken from a producer batch quality certificate for the equivalent-family rotational-molding grade, reporting a melt flow rate and density consistent with this grade's published specification range; a distributor-hosted per-grade technical data sheet corroborates the general processing characteristics and applications.

2. 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.