

LLDPE**LLDPE R735U****LINEAR LOW DENSITY POLYETHYLENE (LLDPE)**

R735U is a UV-stabilized, butene-comonomer linear low-density polyethylene (LLDPE) grade formulated for rotational molding. It is engineered for high-flow processing and is supplied as white, non-toxic, odorless pellets with good processability, high tensile strength and toughness, thermal stability, environmental stress crack resistance (ESCR), and low-temperature impact resistance, with low warpage in the finished part.

Typical Application

- Rotomoulding of large storage tanks and enclosures
- Rotomolded outdoor containers
- Traffic safety equipment

Product Characteristics

- UV-stabilized (UV8) for outdoor durability
- High-flow rotomolding grade
- Good environmental stress crack resistance (ESCR)
- Good low-temperature impact resistance
- Low warpage

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Index (190°C/2.16kg)	ASTM D1238	6.5	g/10 min
Density	ASTM D1505	0.935	g/cm ³

Processing Guidelines

Process by standard rotational molding methods; oven and cooling cycles should be set per part wall thickness and mold design, following standard LLDPE rotomolding practice.

1. MFI value per site-verified data. Density is a typical value per the producer's published rotomolding grade family data (same producer, same product line) and is provided for reference pending the 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.
3. Full per-grade technical data and a certificate of analysis are supplied with each order.