

LLDPE

LLDPE C4LL 2018

LINEAR LOW DENSITY POLYETHYLENE (LLDPE)

This butene-comonomer linear low density polyethylene resin is designed for the blown film process, offering high gloss and excellent draw down. Films made from this resin have very good tensile and toughness properties.

Typical Application

- Agricultural film
- Bag in box
- Blown film
- Cast film
- Food packaging
- Form fill and seal packaging
- Freezer film
- Garment film
- General packaging
- Industrial packaging
- Institutional can liners
- Lamination film
- Liners
- Mulch film
- Multilayer packaging film
- Packaging films
- Personal care
- Produce bags on a roll
- Shoppers
- Trash can liners

International Compliance

- Potential food-contact application compliance (FDA, EU, HPFB) available on request; written Statement of Compliance supplied per production lot at order.

Film Properties

Properties	Test Method	Typical Value	Unit
Tensile Strength at Yield MD	ASTM D882	9.4	MPa
Tensile Strength at Yield TD	ASTM D882	8.9	MPa
Tensile Strength at Break MD	ASTM D882	49	MPa
Tensile Strength at Break TD	ASTM D882	29	MPa
Elongation at Break MD	ASTM D882	590	%
Elongation at Break TD	ASTM D882	800	%
Secant Modulus TD, 1% Secant	ASTM D882	220	MPa
Dart Drop Impact	ASTM D1709A	70	g
Elmendorf Tear Strength MD	ASTM D1922	90	g
Elmendorf Tear Strength TD	ASTM D1922	400	g

Gloss (45°)	ASTM D2457	76	
Haze	ASTM D1003	4.4	%

Physical Properties

Properties	Test Method	Typical Value	Unit
Density / Specific Gravity	ASTM D792	0.918	g/cm ³
Melt Index (190°C/2.16 kg)	ASTM D1238	2.0	g/10 min
Peak Melting Temperature		121	°C

Processing Guidelines

Test specimens were prepared and tested using a 25.4 µm (1.0 mil) thick film (screw diameter 75 mm, die gap 2.5 mm, blow-up ratio 2.5, temperature setting 200°C). Optical film properties were measured on a 25.4 µm thick film with the addition of 10% low-density polyethylene under the same conditions.

1. Melt index (2.0 g/10 min) matches the distributor offer-sheet listing exactly; the offer sheet did not specify a density, so the producer datasheet value (0.918 g/cm³) is used here.
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.