

LDPE

LDPE LD 2022

LOW DENSITY POLYETHYLENE (LDPE)

This mid-flow LDPE blown-film extrusion grade offers a good balance of optical and mechanical properties. Several additive packages are available according to the required surface properties.

Typical Application	Product Characteristics	International Compliance
• Blend partner • Cast film • Compounding • Foams • Food packaging • Form fill and seal packaging • Freezer film • Lamination film • Light duty shrink film • Liners • Mail bag • Produce bags • Shoppers • Textile packaging • Tough medium sized molding	• Available in multiple additive packages (antiblock / slip levels) to match required surface properties	• 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	11	MPa
Tensile Strength at Yield TD	ASTM D882	11	MPa
Tensile Strength at Break MD	ASTM D882	25	MPa
Tensile Strength at Break TD	ASTM D882	22	MPa
Elongation at Break MD	ASTM D882	330	%
Elongation at Break TD	ASTM D882	550	%
Secant Modulus MD, 1% Secant	ASTM D882	210	MPa
Secant Modulus TD, 1% Secant	ASTM D882	230	MPa
Dart Drop Impact	ASTM D1709A	80	g
Elmendorf Tear Strength MD	ASTM D1922	150	g
Elmendorf Tear Strength TD	ASTM D1922	120	g
Gloss (45°)	ASTM D2457	63	
Haze	ASTM D1003	6.1	%

Physical Properties

Properties	Test Method	Typical Value	Unit
------------	-------------	---------------	------

Density	ASTM D1505	0.923	g/cm ³
Melt Index (190°C/2.16 kg)	ASTM D1238	2.0	g/10 min
Peak Melting Temperature		110	°C

Processing Guidelines

Film (1.5 mil / 38.1 micron) made on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 340-360°F (171-182°C), a 30 mil (0.76 mm) die gap, at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

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.