LDPE

LDPE LD 03322

LOW DENSITY POLYETHYLENE (LDPE)

This is a low-flow LDPE blown-film extrusion grade offering high strength combined with medium optical properties.

Typical Application	International Compliance
• Agricultural film • Blend partner • Construction film • Foams • Heavy duty bags • High performance collation shrink • Pallet shrink film • Profile extrusion	• 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	12.4	MPa
Tensile Strength at Yield TD	ASTM D882	11.7	MPa
Tensile Strength at Break MD	ASTM D882	20.0	MPa
Tensile Strength at Break TD	ASTM D882	17.2	MPa
Elongation at Break MD	ASTM D882	280	%
Elongation at Break TD	ASTM D882	540	%
Secant Modulus MD, 1% Secant	ASTM D882	227	MPa
Secant Modulus TD, 1% Secant	ASTM D882	283	MPa
Dart Drop Impact	ASTM D1709A	490	g
Elmendorf Tear Strength MD	ASTM D1922	260	g
Elmendorf Tear Strength TD	ASTM D1922	460	g
Gloss (45°)	ASTM D2457	45	
Haze	ASTM D1003	15	%

Physical Properties

Properties	Test Method	Typical Value	Unit
Density	ASTM D1505	0.922	g/cm³
Melt Index (190°C/2.16 kg)	ASTM D1238	0.33	g/10 min
Peak Melting Temperature		109	°C

Processing Guidelines

Test specimens were prepared on 150 µm (5.9 mil) thick film, using a 200 mm (7.9 in) die, die gap of 1.0 mm (39.4 mil), blow-up ratio of 1.5, and a temperature profile of 145-190°C (293-374°F).

1. Reported melt index is an estimate based on correlation from melt flow rate data measured at other standard conditions (ASTM D1238).
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.