

mLLDPE**mLLDPE Exceed 2012****METALLOCENE LINEAR LOW DENSITY POLYETHYLENE (mLLDPE)**

This hexene-comonomer metallocene linear low density polyethylene resin is an ethylene 1-hexene copolymer. Films made from this resin have outstanding toughness, impact strength and puncture resistance. These superior strength properties, along with excellent heat sealing and hot tack performance, make it a versatile packaging film resin.

Typical Application

- Bag in box
- Barrier food packaging
- Blown film
- Food packaging
- Form fill and seal packaging
- Freezer film
- Heavy duty bags
- Ice bags
- Lamination film
- Multilayer packaging film
- Stand up pouches

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	6.3	MPa
Tensile Strength at Yield TD	ASTM D882	6.0	MPa
Tensile Strength at Break MD	ASTM D882	70	MPa
Tensile Strength at Break TD	ASTM D882	60	MPa
Elongation at Break MD	ASTM D882	560	%
Elongation at Break TD	ASTM D882	610	%
Secant Modulus MD, 1% Secant	ASTM D882	100	MPa
Secant Modulus TD, 1% Secant	ASTM D882	100	MPa
Dart Drop Impact	ASTM D1709A	690	g
Elmendorf Tear Strength MD	ASTM D1922	240	g
Elmendorf Tear Strength TD	ASTM D1922	300	g
Puncture Force		57	N
Puncture Energy		5.3	J
Gloss (45°)	ASTM D2457	33	
Haze	ASTM D1003	21	%

Physical Properties

Properties	Test Method	Typical Value	Unit
Density / Specific Gravity	ASTM D792	0.912	g/cm ³
Melt Index (190°C/2.16 kg)	ASTM D1238	2.0	g/10 min
Peak Melting Temperature		114	°C
Vicat Softening Temperature		96.0	°C

1. Melt index (2.0 g/10 min) matches the distributor offer-sheet listing exactly; the producer's current datasheet page for this grade code carries an updated resin family name, but the underlying grade code (2012) and melt index are unchanged.

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.