

Marlex® D173

Metallocene Linear Low Density Polyethylene
Chevron Phillips Chemical Company LLC

Message:

This metallocene linear low density polyethylene is an ethylene-hexene copolymer tailored for cast film applications that require:

- Superior clarity
- Excellent gloss
- Exceptional toughness
- Outstanding heat seal

Typical cast film applications include:

- Stretch wrap
- Overwrap
- Coextrusions

General Information			
Additive	Processing aid		
Features	Highlight		
	Good heat sealability		
	Definition, high		
	Good toughness		
Uses	Stretch winding		
	cast film		
Forms	Particle		
Processing Method	Co-extruded film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Cast Film)	> 1.0		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882
1% secant, MD: 25 µm, cast film	103	MPa	ASTM D882
1% secant, TD: 25 µm, cast film	110	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm, extruded film	10.0	MPa	ASTM D882
TD: Yield, 25 µm, extruded film	9.00	MPa	ASTM D882
MD: Broken, 25 µm, extruded film	54.0	MPa	ASTM D882

TD: Broken, 25 μm, extruded film	38.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 μm, extruded film	500	%	ASTM D882
TD: Broken, 25 μm, extruded film	580	%	ASTM D882
Seal Initiation Temperature (25 μm, Cast Film)	101	°C	ASTM F88
Dart Drop Test (25.4 μm) ¹	173.7	kN/m	ASTM D1709
Elmendorf Tear Strength ²			ASTM D1922
MD : 25.4 μm	115.8	kN/m	ASTM D1922
TD : 25.4 μm	193.0	kN/m	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 25.4 μm, Blown Film)	140		ASTM D2457
Haze (25.4 μm, Blown Film)	2.0	%	ASTM D1003
NOTE			
1.	Cast Film		
2.	Cast Film		

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