Marlex® D174

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/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	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	110	MPa	ASTM D882
1% secant, TD: 25 µm, cast film	117	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	47.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 µm, extruded film	550	%	ASTM D882
TD: Broken, 25 µm, extruded film	680	%	ASTM D882
Seal Initiation Temperature (25 µm, Cast Film)	101	°C	ASTM F88
Dart Drop Test (25.4 µm) [1]	100.4	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		

Recommended distributors for this material

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