

# Marlex® D170DK

Metallocene Linear Low Density Polyethylene  
Chevron Phillips Chemical Company LLC

Message:

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

- Good tensile properties
- Exceptional toughness
- Surface printing
- Stiffness

Typical blown film applications include:

- Heavy duty packaging
- Industrial packaging
- Institutional packaging

General Information			
Additive	Processing aid		
Features	Good Printability		
	Rigid, good		
	Good toughness		
Uses	Blown Film		
	Packaging		
	Industrial application		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.95	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Blown Film)	0.80		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882
1% secant, MD: 25 µm, blown film	221	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	228	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm, blown film	14.0	MPa	ASTM D882
TD: Yield, 25 µm, blown film	11.0	MPa	ASTM D882
MD: Broken, 25 µm, blown film	60.0	MPa	ASTM D882
TD: Broken, 25 µm, blown film	42.0	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Broken, 25 µm, blown film	480	%	ASTM D882
TD: Broken, 25 µm, blown film	560	%	ASTM D882
Dart Drop Impact (25 µm, Blown Film)	> 250	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	250	g	ASTM D1922
TD: 25 µm, blown film	600	g	ASTM D1922
Seal Initiation Temperature <sup>1</sup> (25 µm, Blown Film)	109	°C	ASTM F88
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 25.4 µm, Blown Film)	100		ASTM D2457
Haze (25.4 µm, Blown Film)	10	%	ASTM D1003
NOTE			

1.

Temperature at which 0.3 lb/in heat seal strength is achieved. 0.5 s dwell, 30 psi pressure, 11.8 in/min separation rate.

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