

mPact® D139

Metallocene Linear Low Density Polyethylene
Chevron Phillips Chemical Company LLC

PROSPECTOR®

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Technical Data

Product Description

This mLLDPE is tailored for applications that require:

- Excellent clarity
- Excellent gloss
- Excellent toughness
- Excellent heat seal

Typical blown film applications include:

- Seal layer in coextrusions
- Heavy duty packaging
- Clarity packaging

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Search for UL Yellow Card	• Chevron Phillips Chemical Company LLC
Availability	• Latin America • North America
Additive	• Processing Aid
Features	• Good Flexibility • Good Heat Seal • Good Toughness • High Clarity • High Gloss
Uses	• Blown Film • Packaging
Forms	• Pellets
Processing Method	• Blown Film • Coextrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.918 g/cm ³	0.918 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Coefficient of Friction (Blown Film)	> 1.0	> 1.0	ASTM D1894
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1.0 mil	25 µm	
Secant Modulus			ASTM D882
1% Secant, MD : 1.0 mil (25 µm), Blown Film	26000 psi	179 MPa	
1% Secant, TD : 1.0 mil (25 µm), Blown Film	30200 psi	208 MPa	
Tensile Strength			ASTM D882
MD : Yield, 1.0 mil (25 µm), Blown Film	1850 psi	12.8 MPa	
TD : Yield, 1.0 mil (25 µm), Blown Film	1450 psi	10.0 MPa	
MD : Break, 1.0 mil (25 µm), Blown Film	10800 psi	74.5 MPa	
TD : Break, 1.0 mil (25 µm), Blown Film	8270 psi	57.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 1.0 mil (25 µm), Blown Film	500 %	500 %	
TD : Break, 1.0 mil (25 µm), Blown Film	600 %	600 %	
Dart Drop Impact			ASTM D1709
1.0 mil (25 µm), Blown Film	> 700 g	> 700 g	
Elmendorf Tear Strength			ASTM D1922
MD : 1.0 mil (25 µm), Blown Film	220 g	220 g	
TD : 1.0 mil (25 µm), Blown Film	430 g	430 g	
Seal Initiation Temperature ³			ASTM F88
1.0 mil (25 µm), Blown Film	216 °F	102 °C	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (60°, 1.00 mil (25.4 µm), Blown Film)	130	130	ASTM D2457



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Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (1.00 mil (25.4 µm), Blown Film)	4.0 %	4.0 %	ASTM D1003

Additional Information

Blown Film produced on LLDPE line, 2.5:1 BUR, 80 mil Die Gap 8 in Die, 250 lbs/hr, 400°F Melt Temperature.

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 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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Where to Buy

Supplier

Chevron Phillips Chemical Company LLC

The Woodlands, TX USA

Telephone: 800-231-1212

Web: <http://www.cpchem.com/>

Distributor

Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

M. Holland Canada Company

Telephone: 905-665-1168

Web: <http://www.mholland.com/>

Availability: Canada

M. Holland Company

Telephone: 855-497-1403

Web: <http://www.mholland.com/>

Availability: Mexico, United States

