mPact® D139

Metallocene Linear Low Density Polyethylene Chevron Phillips Chemical Company LLC

Technical Data

Product Description					
This mLLDPE is tailored for applications	that require	2			
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	Comme	ercial: Active			
	Technic	al Datasheet (Er	nalish)		
Search for LIL Vollow Card	Chevro	n Phillins Chemi		`	
		marias	A Company LLC	Amorico	
Availability	• Laun A		• NOILII <i>F</i>	America	
Additive	Process	sing Aid			
Features	Good FGood F	lexibility leat Seal	Good 1High C	Toughness • High Clarity	1 Gloss
Uses	Blown F	Film	 Packaç 	ging	
Forms	Pellets				
Processing Method	Blown F	Film	Coextr	usion	
r roccooling motilod					
Physical		Nominal Value	e (English)	Nominal Value (SI)	Test Method
Density		0.918	3 g/cm³	0.918 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.1	6 kg)	1.0) g/10 min	1.0 g/10 min	ASTM D1238
Mechanical		Nominal Value	e (English)	Nominal Value (SI)	Test Method
Coefficient of Friction (Blown Film)		> 1.()	> 1.0	ASTM D1894
Films		Nominal Value	e (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), Blo	wn Film	26000) psi	179 MPa	
1% Secant, TD : 1.0 mil (25 µm), Blov	vn Film	30200) psi	208 MPa	
Tensile Strength					ASTM D882
MD : Yield, 1.0 mil (25 µm), Blown Fili	n	1850) psi	12.8 MPa	
TD : Yield, 1.0 mil (25 μm), Blown Filn	n	1450) psi	10.0 MPa	
MD : Break, 1.0 mil (25 µm), Blown Fi	lm	10800) psi	74.5 MPa	
TD : Break, 1.0 mil (25 µm), Blown Fil	m	8270) psi	57.0 MPa	
Tensile Elongation					ASTM D882
MD : Break, 1.0 mil (25 µm), Blown Fi	lm	500)%	500 %	
TD : Break, 1.0 mil (25 μm), Blown Fil	m	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	۶°F	102 °C	
Optical		Nominal Value	e (English)	Nominal Value (SI)	Test Method
Gloss (60°, 1.00 mil (25.4 µm), Blown Fi	lm)	130)	130	ASTM D2457

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Chevron Phi	llips Chen	nical Com	pany LLC
Metallocene L	_inear Low	Density P	olvethylene

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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



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