

# mPact™ D139FK

Metallocene Linear Medium Density Polyethylene  
Chevron Phillips Chemical Company LLC

Message:

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 Information			
Additive	Processing aid		
	Anti-caking agent (5000 ppm)		
	Sliding agent (1000 ppm)		
Features	Highlight		
	smoothness		
	Anti-caking property		
	Good heat sealability		
	Good flexibility		
	Definition, high		
Uses	Good toughness		
Uses	Blown Film		
	Packaging		
Forms	Particle		
Processing Method	Blow film		
	Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Blown Film)	0.15		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882

1% secant, MD: 25 µm, blown film	165	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	188	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm, blown film	12.8	MPa	ASTM D882
TD: Yield, 25 µm, blown film	9.65	MPa	ASTM D882
MD: Broken, 25 µm, blown film	57.2	MPa	ASTM D882
TD: Broken, 25 µm, blown film	45.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 µm, blown film	450	%	ASTM D882
TD: Broken, 25 µm, blown film	560	%	ASTM D882
Dart Drop Impact (25 µm, Blown Film)	600	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	230	g	ASTM D1922
TD: 25 µm, blown film	440	g	ASTM D1922
Seal Initiation Temperature <sup>1</sup> (25 µm, Blown Film)	102	°C	ASTM F88
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 25.4 µm, Blown Film)	103		ASTM D2457
Haze (25.4 µm, Blown Film)	9.0	%	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.			
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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