

mPact™ D139EK

Metallocene Linear Low 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 (500 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 ³	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)	0.60		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 ¹ (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.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT