

# mPact™ D163

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		
Features	Highlight		
	Good heat sealability		
	Good flexibility		
	Definition, high		
	Good toughness		
Uses	Blown Film		
	Packaging		
Forms	Particle		
Processing Method	Blow film		
	Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.914	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Blown Film)	> 1.0		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882
1% secant, MD: 25 µm, blown film	145	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	153	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm, blown film	11.7	MPa	ASTM D882
TD: Yield, 25 µm, blown film	8.27	MPa	ASTM D882

MD: Broken, 25 µm, blown film	73.8	MPa	ASTM D882
TD: Broken, 25 µm, blown film	60.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 µm, blown film	500	%	ASTM D882
TD: Broken, 25 µm, blown film	600	%	ASTM D882
Dart Drop Impact (25 µm, Blown Film)	> 800	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	180	g	ASTM D1922
TD: 25 µm, blown film	390	g	ASTM D1922
Seal Initiation Temperature <sup>1</sup> (25 µm, Blown Film)	95.0	°C	ASTM F88
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 25.4 µm, Blown Film)	130		ASTM D2457
Haze (25.4 µm, Blown Film)	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.			
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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