mPact[™] D350

Metallocene Linear Low Density Polyethylene

Chevron Phillips Chemical Company LLC

Message:

This mLLDPE is tailored for applications that require: High clarity Excellent gloss Good stiffness Good toughness Typical blown film applications include: Overwrap Bakery Stand-up pouches

General Information			
Additive	Processing aid		
Features	Rigid, good		
	Highlight		
	Good flexibility		
	Definition, high		
	Good toughness		
Uses	Blown Film		
	Stretch winding		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.933	g/cm³	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)	0.90		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
Film Puncture Force 1 (25 μ m)	32.0	Ν	ASTM D3763
secant modulus			ASTM D882
1% secant, MD: 25 μm, blown film	434	MPa	ASTM D882
1% secant, TD: 25 μm, blown film	607	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm, blown film	17.0	MPa	ASTM D882
TD: Yield, 25 μm, blown film	21.0	MPa	ASTM D882
MD: Broken, 25 µm, blown film	57.0	MPa	ASTM D882

TD: Broken, 25 µm, blown film	46.0	MPa	ASTM D882	
Tensile Elongation			ASTM D882	
MD: Broken, 25 µm, blown film	580	%	ASTM D882	
TD: Broken, 25 μm, blown film	700	%	ASTM D882	
Dart Drop Impact (25 µm, Blown Film)	80	g	ASTM D1709	
Elmendorf Tear Strength			ASTM D1922	
MD: 25 µm, blown film	50	g	ASTM D1922	
TD: 25 μm, blown film	400	g	ASTM D1922	
Seal Initiation Temperature ² (25 µm,				
Blown Film)	120	°C	ASTM F88	
Impact	Nominal Value	Unit	Test Method	
Instrumented Dart Impact (0.0254 mm,				
Blown Film)	1.50	J	ASTM D3763	
Optical	Nominal Value	Unit	Test Method	
Gloss (60°, 25.4 µm, Blown Film)	130		ASTM D2457	
Haze (25.4 µm, Blown Film)	5.0	%	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.	Blown Film			
	Temperature at which 0.3 lb/in			
	heat seal strength is achieved. 0.5 s			
	dwell, 30 psi pressure, 11.8 in/min			
2.	separation rate.			

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