

MarFlex® 9659

High Density Polyethylene
Chevron Phillips Chemical Company LLC

Message:

MarFlex®9659 is a high density polyethylene material. This product is available in North America or Latin America. The processing method is: blow molding film or co-extrusion molding.

MarFlex®The main features of the 9659 are:

Homopolymer

accessible food

Good stiffness

Good toughness

Typical application areas include:

Wrapping

packing

Movie

General Information			
Features	Rigid, good Homopolymer Good stripping Good strength Good toughness Compliance of Food Exposure Barrier resin		
Uses	Films Stretch winding Food packaging		
Forms	Particle		
Processing Method	Blow film Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.962	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)	0.25		ASTM D1894
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% secant, MD: 25 µm, blown film	1080	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	1370	MPa	ASTM D882
Tensile Strength			ASTM D882

MD: Broken, 25 µm, blown film	42.0	MPa	ASTM D882
TD: Broken, 25 µm, blown film	26.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 µm, blown film	490	%	ASTM D882
TD: Broken, 25 µm, blown film	550	%	ASTM D882
Oxygen Transmission Rate (25 µm, Blown Film)	2000	cm ³ /m ² /24 hr	ASTM D3985
Water Vapor Transmission Rate (25 µm, Blown Film)	4.0	g/m ² /24 hr	ASTM F1249
Dart Drop Test - Blown Film (25.4 µm)	19.3	kN/m	ASTM D1709
Elmendorf Tear Strength ¹			ASTM D1922
MD : 25.4 µm	7.3	kN/m	ASTM D1922
TD : 25.4 µm	81.1	kN/m	ASTM D1922

Additional Information

Blown Film produced using a grooved feed extruder, 8 lb/in die, 2.5 BUR, using a dual lip air ring.

NOTE

1. Blown Film

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