

EVALENE® LLDPE LF10182

Linear Low Density Polyethylene
JG Summit Petrochemical Corporation

Message:

EVALENE ® LF10182 is recommended as lamination or core layer material in a coextruded film where superior stiffness is required. Its outstanding mechanical properties make EVALENE ® LF10182 ideal for applications that require exceptional toughness and puncture resistance.

- FEATURES
- Excellent stiffness
 - Outstanding mechanical properties
 - Meets FDA Philippines food-contact requirements
 - Halal certified
- TYPICAL APPLICATIONS
- Flexible packaging

General Information	
Features	Low density
	Butene comonomer
	Rigidity, high
	Perforation resistance
	Good toughness
	Compliance of Food Exposure
Uses	Blown Film
	Packaging
Forms	Particle
Processing Method	Film extrusion
	Blow film
	Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density ¹	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus ²			ASTM D882
1% secant, MD: 25 µm, blown film	195	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	205	MPa	ASTM D882
Tensile Strength ³			ASTM D882
MD: Yield, 25 µm, blown film	10.0	MPa	ASTM D882
TD: Yield, 25 µm, blown film	9.00	MPa	ASTM D882
MD: Broken, 25 µm, blown film	12.0	MPa	ASTM D882

TD: Broken, 25 μm, blown film	10.0	MPa	ASTM D882
Tensile Elongation ⁴			ASTM D882
MD: Yield, 25 μm, blown film	53	%	ASTM D882
TD: Yield, 25 μm, blown film	36	%	ASTM D882
MD: Broken, 25 μm, blown film	420	%	ASTM D882
TD: Broken, 25 μm, blown film	390	%	ASTM D882
Dart Drop Impact (25 μm, Blown Film)	77	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 25 μm, blown film	280	g	ASTM D1922
TD: 25 μm, blown film	440	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 μm, Blown Film)	84		ASTM D2457
Haze (25.0 μm, Blown Film)	15	%	ASTM D1003
Additional Information	Nominal Value		
Blow-up Ratio	2.00 - 4.00		
Extrusion	Nominal Value	Unit	
Melt Temperature	170 - 190	°C	
NOTE			
1.	23°C		
2.	25 mm/min		
3.	500 mm/min		
4.	500 mm/min		

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