

# EVALENE® LLDPE LF08262

Linear Low Density Polyethylene  
JG Summit Petrochemical Corporation

Message:

Stiff, strong and tough films are made using EVALENE ® LF08262, the most versatile EVALENE ® grade. EVALENE ® LF08262 has outstanding mechanical properties comparable with premium octene-based (C8) LLDPE, which makes it particularly suitable for very demanding heavy duty applications. EVALENE ® LF08262 can replace butene (C4) LLDPE with downgauging possibilities, and delivers maximum performance benefits as a core layer material in coextrusion.

FEATURES

- Outstanding overall strength
- Superior stiffness
- Excellent mechanical properties
- Meets FDA Philippines food-contact requirements
- Halal certified

TYPICAL APPLICATIONS

- Heavy duty sacks
- Agricultural films
- High-performance flexible and industrial packaging requiring superior puncture and tear resistance

General Information			
Features	Low density		
	Rigid, good		
	High strength		
	hexene comonomer		
	Perforation resistance		
	Good tear strength		
	Good toughness		
	Compliance of Food Exposure		
Uses	Blown Film		
	Packaging		
	Films		
	Industrial application		
	Agricultural application		
	Heavy packing bag		
Forms	Particle		
Processing Method	Film extrusion		
	Blow film		
	Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup>	0.926	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
secant modulus <sup>2</sup>			ASTM D882
1% secant, MD: 25 μm, blown film	327	MPa	ASTM D882
1% secant, TD: 25 μm, blown film	262	MPa	ASTM D882
Tensile Strength <sup>3</sup>			ASTM D882
MD: Yield, 25 μm, blown film	14.0	MPa	ASTM D882
TD: Yield, 25 μm, blown film	16.0	MPa	ASTM D882
MD: Broken, 25 μm, blown film	13.0	MPa	ASTM D882
TD: Broken, 25 μm, blown film	15.0	MPa	ASTM D882
Tensile Elongation <sup>4</sup>			ASTM D882
MD: Yield, 25 μm, blown film	16	%	ASTM D882
TD: Yield, 25 μm, blown film	11	%	ASTM D882
MD: Broken, 25 μm, blown film	490	%	ASTM D882
TD: Broken, 25 μm, blown film	470	%	ASTM D882
Dart Drop Impact (25 μm, Blown Film)	100	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 25 μm, blown film	380	g	ASTM D1922
TD: 25 μm, blown film	480	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 μm, Blown Film)	72		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 - 210	°C	
NOTE			
1.	23°C		
2.	25 mm/min		
3.	500 mm/min		
4.	500 mm/min		

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