

EVALENE® LLDPE LF10181

Linear Low Density Polyethylene

JG Summit Petrochemical Corporation

Message:

LLDPE is used for heavy-duty sacks, lamination films, industrial cosmetics, pharmaceutical and food packaging materials.

Low Heat Seal Temperatures. Strong Seals. Excellent Tear, Puncture and Impact Strengths.

These properties make Evalene® the best choice for LLDPE packaging films. Its outstanding environmental stress crack resistance, good impact properties at low temperatures, and warp resistance also make it attractive for injection molding applications.

General Information			
Additive	High Antiblock		
	High Slip		
Features	Good Tear Strength		
	High Antiblocking		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Slip		
	High Tensile Strength		
	Low Temperature Heat Sealability		
	Low Temperature Impact Resistance		
	Puncture Resistant		
	Warp Resistant		
Uses	Agricultural Applications		
	Film		
	Industrial Applications		
	Liners		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Film Extrusion		
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	ASTM D882
Secant Modulus ²			
MD : 25 µm, Blown Film	200	MPa	
TD : 25 µm, Blown Film	220	MPa	

Tensile Strength ³			ASTM D882
MD : Break, 25 µm,Blown Film	35.0	MPa	
TD : Break, 25 µm,Blown Film	28.0	MPa	
Tensile Elongation ⁴			ASTM D882
MD : Break, 25 µm,Blown Film	800	%	
TD : Break, 25 µm,Blown Film	900	%	
Dart Drop Impact (25 µm, Blown Film)	100	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm, Blown Film	160	g	
TD : 25 µm, Blown Film	300	g	
NOTE			

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|----|---|
| 1. | Density is that of the base polymer.
Final density is higher due to the
presence of antiblock |
| 2. | 25 mm/min |
| 3. | 500 mm/min |
| 4. | 500 mm/min |

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