

# EVALENE® LLDPE LF20186

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 Mold Release		
	Good Tear Strength		
	High Antiblocking		
	High Clarity		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Slip		
	Low Temperature Heat Sealability		
	Low Temperature Impact Resistance		
	Puncture Resistant		
	Warp Resistant		
Uses	Film		
	Food Packaging		
	Industrial Applications		
	Liners		
	Stretch Wrap		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blown Film		
	Film Extrusion		
	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup>	0.918	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
Secant Modulus <sup>2</sup>			ASTM D882
MD : 25 μm, Blown Film	200	MPa	
TD : 25 μm, Blown Film	210	MPa	
Tensile Strength <sup>3</sup>			ASTM D882
MD : Break, 25 μm,Blown Film	15.0	MPa	
TD : Break, 25 μm,Blown Film	12.0	MPa	
Tensile Elongation <sup>4</sup>			ASTM D882
MD : Break, 25 μm,Blown Film	600	%	
TD : Break, 25 μm,Blown Film	550	%	
Dart Drop Impact (25 μm, Blown Film)	95	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 μm, Blown Film	200	g	
TD : 25 μm, Blown Film	330	g	

#### NOTE

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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#### Recommended distributors for this material

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