

Lanufene LLF 181N

Linear Low Density Polyethylene

Ras Lanuf Oil & Gas Processing Company (RASCO)

Message:

LANUFENE LLF 181N is a linear low density polyethylene for general purpose blown film extrusion with high mechanical properties and good process-ability. LANUFENE LLF 181N contains neither slip additive nor anti-blocking agent. The film produced from this resin characteristically exhibits good toughness, and outstanding puncture resistance.

LANUFENE LLF 181N is particularly suitable for blending with LLDPE and/or HDPE, Coextrusion, heavy duty bags and stretch film application.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	Good Toughness		
	Puncture Resistant		
Uses	Agricultural Applications		
	Bags		
	Blending		
	Film		
	Food Packaging		
	Heavy-duty Bags		
	Liners		
	Stretch Wrap		
Forms	Pellets		
Processing Method	Blown Film		
	Coextrusion		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	21.0	MPa	ASTM D638
Tensile Elongation (Break)	800	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 38 µm	220	MPa	
1% Secant, TD : 38 µm	260	MPa	

Tensile Strength			ASTM D882
MD : Break, 38 µm	40.0	MPa	
TD : Break, 38 µm	32.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 38 µm	750	%	
TD : Break, 38 µm	700	%	
Dart Drop Impact (38 µm)	150	g	ASTM D1709A
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	99.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 µm)	53		ASTM D2457
Haze (38.0 µm)	15	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 220	°C	

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