

Lanufene LLF 183N

Linear Low Density Polyethylene

Ras Lanuf Oil & Gas Processing Company (RASCO)

Message:

LANUFENE LLF 183N is a linear low density polyethylene for cast film extrusion with high mechanical properties and good process-ability. LANUFENE LLF 183N contains neither slip additive nor anti-blocking agent. The film produced from this resin characteristically exhibits good toughness, and outstanding puncture resistance.

LANUFENE LLF 183N is particularly suitable for the manufacture of PE Cast Films and other applications where excellent flow properties and good mechanical properties are required.

General Information	
Features	Food Contact Acceptable Good Processability Good Toughness Puncture Resistant
Uses	Cast Film Film
Forms	Pellets
Processing Method	Cast Film 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)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	15.0	MPa	ASTM D638
Tensile Elongation (Break)	650	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
Secant Modulus			ASTM D882
1% Secant, MD : 38 µm	150	MPa	
1% Secant, TD : 38 µm	154	MPa	
Tensile Strength			ASTM D882
MD : Break, 38 µm	30.0	MPa	
TD : Break, 38 µm	25.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 38 µm	450	%	
TD : Break, 38 µm	650	%	
Dart Drop Impact (38 µm)	120	g	ASTM D1709A

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	94.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 μm)	90		ASTM D2457
Haze (38.0 μm)	4.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	Test Method
Melt Temperature	220 to 270	°C	

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