

# LANUFENE® LLF-181N

MI 1.0

Linear Low Density Polyethylene

Density 0.918

## Description

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

## Typical Properties

Property	ASTM Method	Unit	Value <sup>(1)</sup>
<b>Resin Properties<sup>(2)</sup></b>			
Melt Index, 190°C, 2.16kg	D1238	g/10 min.	1.0
Density, @ 23°C	D1505	g/cm <sup>3</sup>	0.918
Ultimate Tensile Strength	D638	MPa	21
Elongation	D638	%	800
Vicat Softening Temperature	D1505	°C	99
Low Temperature Brittleness	D746	°C	< -70
<b>Film Properties<sup>(3)</sup></b>			
Tensile Strength at Break, MD/TD	D882	MPa	40/32
Elongation at Break, MD/TD	D882	%	750/700
1% Secant Modulus, MD/TD	D882	MPa	220/260
Dart Impact, F <sub>50</sub>	D1709/A	g	150
Haze	D1003	%	15
Gloss, 45°	D2457	-	53

1. Values are typical and should not to be interpreted as specification

2. Test specimen prepared from compression molded sheet made according to ASTM D1926

3. The film property has been measured on 38µm film thickness, 2:1 blow-up ratio

## Application

LANUFENE® LLF-181N is particularly suitable for blending with LDPE and/or HDPE, coextrusion, heavy duty bags and stretch film application



Ras Lanuf Oil & Gas Processing Co.