

LANUFENE LLF 182H

MFI 2.0

Linear Low Density Polyethylene

Density 0.918

Description

LANUFENE LLF 182H is a linear low density polyethylene for general purpose blown film extrusion with high mechanical properties and good process-ability. LANUFENE LLF 182H contains slip additive and anti-blocking agent. The film produced from this resin characteristically exhibits good toughness, high tensile properties, outstanding puncture resistance and good optical properties.

Typical Properties

Property	ASTM Method	Unit	Value ⁽¹⁾
Resin Properties ⁽²⁾			
Melt Index, 190°C, 21.6 kg	D1238	g/10 min	2.0
Density, @ 23°C	D1505	g/cm ³	0.918
Ultimate Tensile Strength	D638	MPa	18
Elongation	D638	%	650
Vicat Softening Temperature	D1505	°C	95
Low Temperature Brittleness	D746	°C	< -70
Film Properties ⁽³⁾			
Tensile Strength at Break, MD/TD	D882	MPa	34/25
Elongation at Break, MD/TD	D882	%	700/750
1% Secant Modulus, MD/TD	D882	MPa	220/260
Dart Impact, F ₅₀	D1709/A	g	60
Haze	D1003	%	10
Gloss, 45°	D2457	-	60

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 182H is recommended for the manufacture of thin gauged general purpose blown films such as industrial liners, food packaging and agricultural mulching film.



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Processing Conditions

LANUFENE LLF 182H can be processed by conventional HDPE blown film extruder. A good balance of film properties is achieved at Blow-Up Ratio (BUR) 2:1 and 3:1. Recommended melt temperature is 180 - 210°C.

Food Contact Regulations

LANUFENE LLF 182H complies with food packing and food regulations in most countries. If required, please contact us for details.

Storage & Handling

LANUFENE LLF 182H should be stored in dry conditions at temperature below 50°C and protected from UV-light. Improper storage can initiate degradation with resulting order generation and color changes.

Safety

LANUFENE LLF 182H is not classified a dangerous preparation. Material Safety Data Sheet is available upon request.

Packaging

The standard packaging of LANUFENE LLF 182H is 25kg PE FFS bag with pallet and PE shrink wrapping. Big bags, 500/1,000kg, are available.



Ras Lanuf Oil & Gas Processing Co.