



Producer: Ras Lanuf Oil & Gas Processing Company (RASCO)

LANUFENE LLF 181N

Description:

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.

Application:

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

| PROPERTY | ASTM METHOD | UNIT | VALUE ⁽¹⁾ |
|--|-------------|-------------------|----------------------|
| Resin Properties ⁽²⁾ | | | |
| Melt Index, 190°C, 21.6 kg | D1238 | g/10 min | 1.0 |
| Density, @ 23°C | D1505 | g/cm ³ | 0.918 |
| Ultimate Tensile Strength | D638 | MPa | 21 |
| Elongation | D638 | % | 800 |
| Vicat Softening Temperature | D1505 | °C | 99 |
| Low Temperature Brittleness | D746 | °C | < -70 |
| Film Properties ⁽³⁾ | | | |
| 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 ₅₀ | 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

Processing Conditions:

LANUFENE LLF 181N can be extruded on convention LLDPE blown film extruder. A good balance of film properties is achieved at Blow-Up Ratio (BUR) between 2:1 and 3:1. Recommended melt temperature is 190 - 220°C.

Food Contact Regulations: **LANUFENE LLF 181N** complies with food packing and food regulations in most countries. If required, please contact us for details.

Storage & Handling: **LANUFENE LLF 181N** 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 181N** is not classified a dangerous preparation. Material Safety Data Sheet is available upon request.

Packaging: The standard packaging of **LANUFENE LLF 181N** is 25kg PE FFS bag with pallet and PE shrink wrapping. Big bags, 500/1,000kg, are available.