



## LLDPE made via Spherilene Process



### Product data sheet HP-LL18XF5/N

HP-LL18XF5 N is a terpolymer of ethylene, propylene & butene-1 for high strength application especially heavy duty shipping sacks, ice bag, frozen food bags, potato bags and agriculture films which have good sealability and excellent puncture resistance. Goods produced from this grade have outstanding toughness, excellent puncture resistance, good heat sealing behavior and excellent machinability on conversion lines. HP-LLDPE's process is easier than conventional LLDPEs and have low gel. HP-LL18XF5 N is a grade without slip additives.

**LLDPE: HP-LL18XF5/N**

**Density: 0.918-0.922**

**MFI: 0.5**

#### Features



- Excellent puncture resistance.
- Excellent machinability on conversion lines.

#### Applications



- T-bags & other bags, Food Packaging for frozen products, Agricultural film, Heat seal film, Food Packaging

#### Additives



- HP-LL18XF5: Thermal Antioxidant Anti-blocking Slip Agent
- HP-LL18XF5N: Thermal Antioxidant Antiblocking Agent

### Material properties (This data are typical values and are not to be construed as product specifications.)

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| Resin Properties          | Unit              |         | Typical Value | Test Method |
|---------------------------|-------------------|---------|---------------|-------------|
| Melt Index                | g/10 min          |         | 0.5           | D1238       |
| Density                   | g/cm <sup>3</sup> |         | 0.918-0.922   | D1505       |
| Film Properties           | Unit              |         | Typical Value | Test Method |
| Dart Impact               | g                 |         | 125           | D 1709      |
| Vicat Softening Point     | °C                |         | 127           | D1525       |
| Tensile Strenght at Yield | Mpa               | (MD/TD) | 11/10         | D638        |
| Tensile Strenght at Break | Mpa               | (MD/TD) | 40/35         | D638        |
| Ultimate Elongation       | %                 | (MD/TD) | 600/750       | D638        |
| Elmendorf Tear            | g                 | (MD/TD) | 240/400       | D1922       |
| Haze                      | %                 |         | 30            | D1003       |
| Gloss 45°                 |                   |         | 25            | D2457       |



Globally Distinguished

## Handelling and Health Safety

Molten polymers could be injured skin or eye so safety glasses and appropriate gloves are suggested to prevent possible thermal injuries. Also appropriate ventilation is suggested in working by melt polymer.

Accumulation of fines or dust particles that are in this grade is not suitable because of explosion hazard probability. So adequated filters and grounding exists at all time are recommended.

## Storage

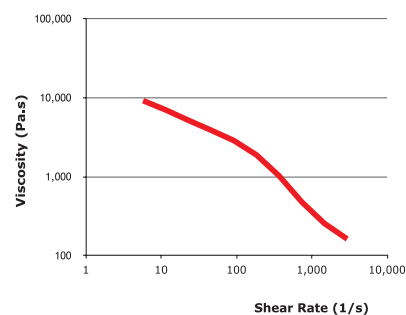
Polyethylene products (in pelletised or powder form) should not be stored in direct sunshine and/or heat radiation. Ultraviolet cause a change in the material properties. The Storage area should be dry and preferably don't exceed 50 °C. Under cool, dry, dark conditions Jam Polymers polyolefin resins are expected to maintain the original material and processing properties for at least 18 month. JPC would not responsible about quality diminishing such as color change, bad smell or ets which caused by bad storage conditions. It is better to process PE resin within 6 months after delivery.

## packaging

Jam Polymers Polyolefin resins are supplied in pllet form packed in 25kg bags. Alternative packaging modes are available for selected grades.

- On compression molded according to ASTM D1928C  
Processing Conditions  
Recommended barrel tempratures range between 190 °C and 280 °C.

Shear-Viscosity @ 190 °C



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The above values were Calculated from data for 100 µm produced on a 75mm Barrnage extruder with 190°C melt temperature using a 2:1 blow ratio and a gap die of 3.0 mm.