



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: 0.918-0922

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.)

38

Resin Properties	Unit		Typical Value	Test Method
Melt Index	g/10 min		0.5	D1238
Density	g/cm ³		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 Strength at Yield	Mpa	(MD/TD)	11/10	D638
Tensile Strength 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



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 adequate filters and grounding exists at all time are recommended.

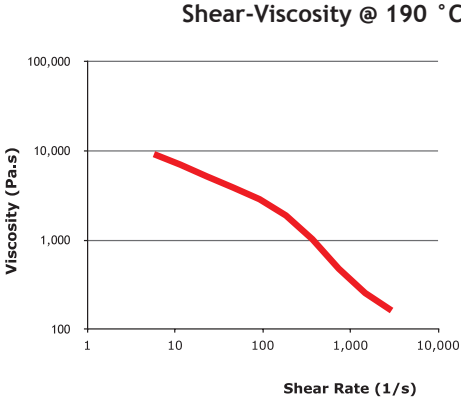
Storage

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 plet 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.



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.

