



LLDPE made via Spherilene Process



Product data sheet HP-LL18XF5

HP-LL18XF5 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. 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.

LLDPE:HP-LL18XF5

Density: 0.92

MFI: 0.5

Features



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

Applications



- Packaging

Additives



- Thermal Antioxidant
- Anti blocking Agent
- Slip 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 ³		0.92	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

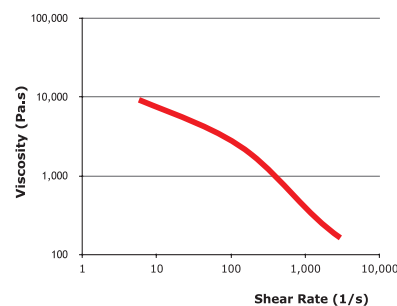
Polyethylene products (in pelletised or powder form) should not be stored in direct sunshine and/or heat radiation. Ultraviolet cause a change in the material properties. The Storage area should be dry and preferably don't exceed 50 °C. Under cool, dry, dark conditions Jam Polymers polyolefin resins 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.