

## Product data sheet

➤ **LLDPE made via Spherilene Gas-Phase Technology**



# LL22501AA LL22501KJ

22501 is a LLDPE blown film grade designed for applications requiring good optical properties even at low extrusion temperature. This resin combines ease of processing with low gels and it is well suited for blending with LDPE and for general purpose applications.

**LLDPE: 22501AA/22501KJ**

**Density: 0.922-0.924**

**MFI: 0.85-1.05**

### Characteristic Properties



- High stiffness
- good optical properties
- low extrusion temperature
- ease of processing
- low gels
- suited for blending with LDPE

### Main Applications



- Blown film grade
- General Purpose applications

### Additives



- 22501AA:
  - Thermal Antioxidant (Process Stabilizer)
  - Catalyst neutralizer (acid scavenger, lubricant)
- 22501KJ:
  - Thermal Antioxidant (Process Stabilizer)
  - Antiblocking Agent
  - Slip Agent
  - Catalyst neutralizer (acid scavenger, lubricant)

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

Resin Properties	Unit	Typical Value	ASTM Method
Melt Index (190°C/ 2.16Kg)	(g/10 min)	0.95	D1238
Density	g/ml	0.9230	D1505
<b>Film properties @</b>			
Dart Impact	(g)	70	D1709
Elmendorf Tear	(g)	MD/TD 105/436	D1922
Tensile Strength at yield	(MPa)	MD/TD 11/12	D882
Tensile Strength at break	(MPa)	MD/TD 41/31	D882
Ultimate elongation	(%)	MD/TD 648/780	D882
Haze	(%)	48	D1003
Gloss 45°		10	D2457
<b>@ 25 micron film obtained on Collin 25, B.u.R. 2.5: 1, Temp. profile 155 → 190°C.</b>			
<b>Recommended processing conditions</b>			
Melt Temperature	(°C)	190-230	
Blow up ratio		2.0-3.0	
Die Gap	(mm)	2.0-2.5	
Thickness	(micron)	15-150	

## Handling 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

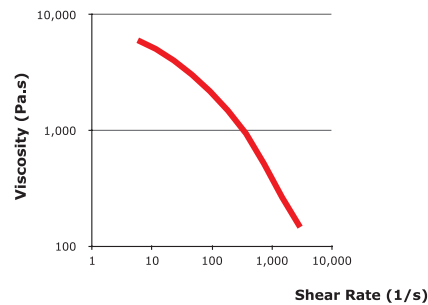
Polyethylene products (in pelletised or powder form) should not be stored in direct sunshine and/or heat radiation. Ultraviolet cause a change in the material properties. The Storage area should be dry and preferably don't exceed 50 °C. Under cool, dry, dark conditions Jam Polymers polyolefin resins 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 Pellet form packed in 25kg bags. Alternative packaging modes are available for selected grades.

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

### Shear-Viscosity @ 190 °C



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