

LLDPE LL0209AA

Linear Low Density Polyethylene

1) Product Description:

"LL 0209AA" is a LLDPE copolymer with butane as comonomer which contains anti-oxidant. It is recommended for general purpose applications. It is suitable for blending with conventional LDPE. Film made from pure LL 02090 AA has the following advantages over conventional LDPE:

- Better sealing, high puncture resistance.
- Greater drawdown capacity
- Higher tensile strength.

Neutralizer: calcium Stearate

Antioxidant: irganox1010, irganox168

2) Applications:

- Heavy duty sacks, agricultural films, liners
- Produce bags, stretch film

3) Typical Data:

PROPERTY	UNIT	TYPICAL VALUE	TEST METHOD
PHYSICAL			
Melt Flow rate (MFR) (190 °C/2.16Kg)	g/10min	0.9	ISO 1133
(190 °C/5Kg)		-	
(190 °C/21.6Kg)		-	
Density	g/cm ³	0.920	ISO 1183
OPTICAL PROPERTIES			
Haze	%	12	ASTM D1003
Gloss	---	50	ASTM DS23
FILM PROPERTIES			
Impact Strength	Gr	150	ASTM D 1709
Tear Strength TD	g/25μ	370	ASTM D 1922
Tear Strength MD	g/25μ	145	ASTM D 1922
Yield Stress TD	MPa	11	ISO 527
Yield Stress MD	MPa	10	ISO 527
Tensile Strength TD	MPa	32	ISO 527
Tensile Strength MD	MPa	41	ISO 527
Elongation at break TD	%	840	ISO 527
Elongation at break MD	%	620	ISO 527
Modulus at elasticity TD	MPa	200	ISO 527

Modulus at elasticity MD	MPa	190	ISO 527
Puncher Resistance			
Coefficient of Friction	---	0.5	ASTM D1894
THERMAL PROPERTIES			
Melting Point	°C	127	ISO 3146

4) Processing Condition:

Recommended melt temperature: 180-225 °C

Film blowing machine: Dr.Collin 30M (Extruder) + 180/400(Unit)

Zone Temperature: 180 °C

Hopper Temperature: 180 °C

Screw speed is set to: 50rpm

The feeder of the extruder is cooled by cooling water CWS/CWR (35-45 °C)

Blow up ratio: 2

Die Diameter: 75mm

Die Gap: 1.2mm