

Low Density Polyethylene TS7006

Description:

TS7006 is a low-density polyethylene (LDPE) specially developed for coextruded films and lamination. The resin presents a great combination among mechanical, optical and stiffness properties. Besides TS7006 has low gels content which ensure a production of excellent appearance films. This product is identified as PE 114 according to ASTM D-4976-04a standard specification.

Additives:

Antiblocking

Slip agent

Application:

High clarity films for coextruded food packaging, such as: cheese, meat, sausages, sliced ham, etc.

Process:

Blown Film Extrusion

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	0.60
Density	D 792	g/cm3	0.925

Typical Properties:

Blow Film Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	25/20
Elongation at Break (MD/TD)	D 882	%	280/870
2% Secant Modulus (MD/TD)	D 882	MPa	140/170
Dart Drop Impact	D 1709	g/F50	140
Elmendorf Tear Strength (MD/TD)	D 1922	gF	-/160
Haze	D 1003	%	12
Gloss - Angle 45°	D 2457	-	55
Gloss - Angle 60°	D 2457	-	80

(MD = Machine Direction; TD = Transversal Direction)

(a) 40 µm thickness film, processed in a 50 mm blow film line with barrier screw. 25:1 L/D and a 1,0 mm die gap at a 2,3: 1 blow up ratio.

Recommended Processing Conditions:

Blow Film Extrusion

- Temperature Profile:.....from 150 to 185°C
- Mass Temperature:..... from 180 to 185°C
- Blow up Ratio:.....from 2,0 to 3,0:1
- Die Gap:.....1,0 mm

The optimum processing conditions will vary according to the type of equipment used and cannot be considered as performance guarantee.

