

Linear Low Density Polyethylene LL4405S

Description:

LL4405S is a Linear Low Density Polyethylene developed for cast film extrusion. Films obtained with this product show a good processing performance balanced with good mechanical properties and processability. Very low gel amount.

Additive:

Antiblocking – High
Slip - High

Applications:

Liners; LDPE and HDPE blends; general use packages; technical films for automatic packaging.

Process:

Blown Film Extrusion

Control Properties:

	ASTM Method	Unit	Value
Melt Flow Rate (190/2.160)	D 1238	g/10 min	2.0
Density	D 792	g/cm ³	0.922

Properties:

Blow Film Properties^a

	ASTM Methods	Units	Values
Ultimate Strength (MD/TD)	D 882	MPa	30/30
Elongation at Break (MD/TD)	D 882	%	1100/1300
Flexural Modulus – 1% Secant	D 882	MPa	200/220
Dart Drop Impact	D 1709	g/F50	75
Elmendorf Tear Strength (MD/TD)	D 1922	gF	60/800
Haze	D 1003	%	25
Gloss – Angle 45°	D 2457	-	35
Gloss – Angle 60°	D 2457	-	65
COF internal 72h	D 1894	-	0.12
Blocking Load	D 3354	gf/100cm ²	6

(a) 40 µm thickness film, processed in a 40 mm screw diameter extruder with blow up ratio of 2,2:1 (MD = Machine Direction; TD = Transversal Direction)

Recommended Processing Conditions:
Cast Film Extrusion

- Temperature Profile:..... from 150 to 250°C
- Screen Package:..... 40/40 - 100% pure
40/60/40 - Blend
- Mass Temperature:..... 230°C (max 260°C)

