

Linear Low Density Polyethylene LL5400S

Description:

LL5400S is a Linear Low Density Polyethylene developed for blown film extrusion in blends with polyethylenes. Films obtained with this product show a good processing performance balanced with good optical and mechanical properties as well as sealability. Very low gel amount. It contains antioxidant additives.

Applications:

Liners; LDPE and HDPE blends and packages for general use.
Others applications: blends for irrigation pipes.

Process:

Recommended processing conditions for film extrusion about 170 - 210 °C. The optimum processing conditions will vary according to the type of equipment used and cannot be considered as performance guarantee.

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190/2.160)	D 1238	g/10 min	1.00
Density	D 1505	g/cm ³	0.918

Typical Properties:

Blown Film Properties^a

	ASTM Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	40/30
Elongation at Break (MD/TD)	D 882	%	1100/1400
Flexural Modulus – 1% Secant	D 882	MPa	170/200
Dart Drop Impact	D 1709	g/F50	120
Elmendorf Tear Strength (MD/TD)	D 1922	gF	100/400
Haze	D 882	%	10
Gloss - Angle 60°	D 2457	-	110

(a) 38 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)

(b) Not determined.

