

Linear Low Density Polyethylene SLL318

Description:

SLL318 is a Linear Low Density Polyethylene, copolymer of **butene-1**, produced by Spherilene process. Developed for cast film extrusion. Films obtained with this product show good mechanical properties and enhanced sealability. It contains antioxidant additives.

The minimum biobased content of this grade is 87%, determined according to ASTM D6866.

Applications:

Stretch films; liners; LDPE and HDPE blends and packages for general use.

Others applications: blends for irrigation pipes; insulation for low and medium tension XLPE wires and cables.

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 (190/2.16)	D 1238	g/10 min	2.7
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	30/30
Elongation at Break (MD/TD)	D 882	%	1220/1440
Flexural Modulus – 1% Secant	D 882	MPa	180/200
Dart Drop Impact	D 1709	g/F50	90
Elmendorf Tear Strength (MD/TD)	D 1922	gF	120/340
Haze	D 1003	%	61
Gloss - Angle 60°	D 2457	%	19

(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)

