

**Linear Low Density Polyethylene SLL118**

**Description:**

SLL118 is a Linear Low Density Polyethylene, copolymer of **butene-1**. 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.

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.

Flexible containers for cosmetics and pharmaceutical applications (complies with USP 37).

**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	1.0
Density	D 1505	g/cm <sup>3</sup>	0.916

**Typical Properties:**

Blown Film Properties<sup>a</sup>

	ASTM Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	50/40
Elongation at Break (MD/TD)	D 882	%	1130/1430
Flexural Modulus – 1% Secant	D 882	MPa	180/200
Dart Drop Impact	D 1709	g/F50	120
Elmendorf Tear Strength (MD/TD)	D 1922	gF	ND/370
Haze	D 1003	%	-
Gloss - Angle 60°	D 2457	%	-

(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.

**Final Remarks:**

1. This resin meets the requirements for olefin polymers as defined in 21 CFR, section 177.1520 issued by FDA – Food and Drug Administration in force on the date of publication of this specification. The additives present are covered in appropriate regulation by FDA.
2. The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
3. In some applications, Braskem has developed tailor-made resins to reach specific requirements.
4. In case of doubt regarding utilization, or for other applications, please contact our Technical Assistance.
5. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. Cas Registry number: 25087-34-7.
6. The mentioned values in this report can be changed at any moment without Braskem previous communication.
7. Unless specified, Braskem does not recommend the use of this grade for the fabrication of packages, parts or any other type of product designed to medical and/or pharmaceutical applications.
8. The content of this Data Sheet replaces previous revisions published for this product.
9. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.