

**Linear Low Density Polyethylene SLL118/21**

**Description:**

SLL118/21 is a LLDPE Butene copolymer produced by Braskem. It is a general purpose product that shows a good processing performance balanced with good optical and mechanical properties as well as sealability. Very low gel amount.  
The minimum biobased content of this grade is 87%, determined according to ASTM D6866.

**Additive:**

Antiblocking Medium  
Slip Medium

**Applications:**

Automatic Packaging (FFS); liners; general purpose; HDPE and LDPE blends.

**Process:**

Blown Film Extrusion

**Control Properties:**

	ASTM Method	Unit	Value
Melt Flow Rate (190/2.16)	D 1238	g/10 min	1.0
Density	D 792	g/cm <sup>3</sup>	0.918

**Properties:**

Blown Film Properties<sup>a</sup>

	ASTM Method	Unit	Value
Tensile Strength at Break (MD/TD)	D 882	MPa	40/30
Elongation at Break (MD/TD)	D 882	%	1070/1340
Flexural Modulus – 1% Secant (MD/TD)	D 882	MPa	210/230
Dart Drop Impact	D 1709	g/F50	130
Elmendorf Tear Strength (MD/TD)	D 1922	gF	180/400
Haze	D 1003	%	34
Gloss - Angle 60°	D 2457	%	47

(a) 38 µm thickness film, processed in a 40mm screw diameter extruder with blow up ratio of 2.2:1. (MD: Machine Direction; TD: Transversal Direction).

**Recommended Processing Conditions:**

**Blown Film Extrusion**

- Temperature Profile:..... from 180 to 210°C
- Blow up Ratio:..... from 2 to 3:1
- Die Gap:..... from 1.8 to 2.5 mm
- Screen Package:..... 40/40 - 100% pure  
40/60/40 - Blend
- Mass Temperature:..... 190°C (max 210°C)

**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. These information reflect 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. Braskem polyolefin products do not have additives with metals or other substances on purpose of oxi-degradation. These additives and the decomposition and disintegration of polyolefins caused by oxi-degradation phenomenon can cause environmental pollution, decrease the package performance and increase migration of package constituent to food, compromising resin approval regarding the requirements of Anvisa Resolution 105/99. The use of these additives with Braskem polyolefin products implies immediate loss of performance guarantee described in this data sheet.
9. The content of this Data Sheet replaces previous revisions published for this product.
10. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.