





Linear Low Density Polyethylene SLL5405S

Description:

SLL5405S is a LLDPE Butene copolymer produced by Braskem. It is a general purpose product that shows a good processing performance balanced with good mechanical properties as well as sealability. This product has very low gel amount.

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

Additive:

Antiblocking High Slip High

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°C/2.16kg)	D 1238	g/10 min	1.0
Density	D 792	g/cm ³	0.918

Properties:

Blown Film Propertiesa

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	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	

⁽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
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 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
- 5. 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.