

Linear Low Density Polyethylene SLH218

Description:

SLH218 is a LLDPE that shows a good balance between optical properties, mechanical properties (Mainly stretchability), sealability and processability. Very low gel contained. The minimum biobased content of this grade is 84%, determined according to ASTM D6866.

Additive:

Slip Absent
Antiblock Absent

Applications:

Stretch films; Liners; LDPE and HDPE blends; packages for general use; Others applications: insulation for low and medium tension XLPE wires and cables; blends for irrigation pipes.

Process:

Cast Film Extrusion

Control Properties:

	ASTM Method	Unit	Value
Melt Flow Rate (190/2.16)	D 1238	g/10 min	2.3
Density	D 1505	g/cm3	0.916

Properties:

Blown Film Properties^a

	ASTM Method	Unit	Value
Tensile Strength at Break (MD/TD)	D 882	MPa	40/40
Elongation at Break (MD/TD)	D 882	%	1170/1500
Flexural Modulus – 1% Secant	D 882	MPa	210/240
Dart Drop Impact	D 1709	g/F50	110
Elmendorf Tear Strength (MD/TD)	D 1922	gF	240/520

(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 Films Extrusion

- Temperature Profile:.....from 150 to 250°C
- Screen Package:40/40 - 100% pure
40/60/40 - Blend
- Mass Temperature:.....230°C (max 260°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. 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 Application Engineering.
5. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. Cas Registry number: 60785-11-7.
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.