

Linear Low Density Polyethylene SLH218

Description:

SLH218 is a LLDPE Hexene copolymer produced by Braskem. It 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.

Applications:

Blends for irrigation pipes, Blends with HDPE, Blends with LDPE, Flexible packaging (Cast films), General use packing, Liners, Low voltage XLPE insulation, Medium voltage XLPE insulation, Stretch Films, Wire insulation

Processes:

Cast film extrusion

Control Properties:

Characteristic	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	2.3
Density	D 1505	g/cm ³	0.916

Typical Properties - Films:

Blown Film Properties^a

Characteristic	Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	40/40
Elongation at Break (MD/TD)	D 882	%	1170/1500
Tensile Modulus - 1% Secant (MD/TD)	D 882	MPa	210/240
Dart Drop Impact	D 1709	g/F50	110
Elmendorf Tear Strength (MD/TD)	D 1922	gF	240/520

(a) Film with 38 microns produce in a 40mm extruder and a blow-up ratio of 2.2:1. (MD = extrusion direction and TD = transversal direction).

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 Area.
5. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 25213-02-9.
6. The mentioned values in this report can be changed at any moment without Braskem previous communication.
7. Braskem does not recommend this grade for packages, parts or any kind of product manufacture that will be used for storage or contact with solution that will have internal contact with human body.
8. This resin does not contain the substance Bisphenol A (BPA, CAS #80-05-7) in its composition.