

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 carbon content of this grade is 84%, determined according to ASTM D6866.

Applications:

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

Processes:

Cast Film Extrusion., Blown Film Extrusion

Control Properties:

| Feature | 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

| Feature | Method | Units | Values |
|--|--------|-------|--------|
| Highlight - Ultimate Test (1)(2) | D 4649 | % | 400 |
| Highlight - Puncture (1)(2) | D 4649 | kg | 2.6 |
| Highlight - Retention Maximum Force (1)(2) | D 4649 | kg | 3.1 |
| Highlight - Retention Ending Force (1)(2) | D 4649 | kg | 2 |
| Highlight - Retention Loss (1)(2) | D 4649 | % | 35 |
| Highlight - Cling (1)(2) | D 4649 | g | 29 |
| Highlight - Unwind Force (1)(2) | D 4649 | kgf | 3.7 |
| Highlight - Sond level (1)(2) | D 4649 | dB | 73 |
| Highlight - Elongation Force (1)(2) | D 4649 | kgf | 34 |
| Haze | D 882 | % | 3 |
| Gloss - Angle 45° | D 2457 | % | 95 |

(1) 23µm thickness film, processed in a 3 layer coextruder (2) Highlight tested at 300%

Typical Properties - Films:

Blown Film Properties^a

| Feature | 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:

- 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.
- For regulatory information of the product, please refer to Regulatory Document or contact our Technical Assistance Area.
- For information about safety, handling, individual protection, first aids and waste disposal, please refer to MSDS.
- The mentioned values in this report can be changed at any moment without Braskem previous communication.