

Linear Low Density Polyethylene LL118/21

Description:

LL118/21 is a LLDPE 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.

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 ³ | 0.919 |

Properties:

Blown Film Properties^a

| | 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)

