

Linear Low Density Polyethylene PLURIS6301
Description:

Pluris6301 is a Braskem Quatropolymer produced with Spherilene technology. This grade show unique properties, such as high stiffness associated with toughness. In addition to good processability, also shows a very good bubble stability and very low gel content.

Applications:

Frozen bags, high performance structures (coextrusion) for automatic packaging (FFS).

Additive:

Antiblocking medium
Slip medium
Processing Aid medium

Process:

Blown Film Extrusion

Control Properties:

| | ASTM Method | Unit | Value |
|---------------------------|-------------|-------------------|-------|
| Melt Flow Rate (190/2.16) | D 1238 | g/10 min | 0.85 |
| 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 | % | 900/1230 |
| Flexural Modulus – 1% Secant (MD/TD) | D 882 | MPa | 250/300 |
| Dart Drop Impact | D 1709 | g/F50 | 135 |
| Elmendorf Tear Strength (MD/TD) | D 1922 | gF | 80/610 |
| Haze | D 1003 | % | 11 |
| Gloss - Angle 60° | D 2457 | % | 102 |

(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 190 to 220°C
- Blow up ratio:..... .from 2 to 3,5:1
- Die gap:.....from 1.8 to 2.5 mm
- Screen package.....40/60/40 mesh
- Mass temperature.....max 220°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. 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: 60785-11-7 + 25895-47-0.
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. 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.