

Linear Low Density Polyethylene PLURIS 9310

Description:

Pluris 9310 is a Braskem Quatropolymer produced with Spherilene technology and is a LLDPE with unique properties, such as high stiffness associated with toughness. It is easier to process than conventional LLDPE with the same melt index and shows very good bubble stability. Films obtained with this product have very low gel content.

Applications:

Automatic Packaging (FFS)

Additive:

Antiblocking Medium
Slip Medium
Processing Aid Medium

Process:

Blown Film Extrusion

Control Properties:

	ASTM Method	Unit	Value
Melt Index (190°C/2.160kg)	D-1238	g/10 min	0.55
Density	D-1505	g/cm ³	0.920

Properties:

Blown Film Properties^a

	ASTM Method	Unit	Value
Haze	D-1003	%	16.0
Gloss - Angle 60°	D-2457	%	7.5
Tensile Strength at Break (MD/TD)	D-882	MPa	56/39
Elongation at Break (MD/TD)	D-882	%	863/1197
1% Secant Modulus (MD/TD)	D-882	MPa	261/291
Dart Drop Impact	D-1709	gF/50%f	146
Elmendorf tear strength (MD/TD)	D-1922	KgF/cm	109/238

(a) 25 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 mmCanhão de 200 a 220°C
- 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 Drugs Administration*. 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.
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. Braskem's resin do not contain aditives produced from metals or other substances which have the objective to promote oxi degradation. Such aditives and the decomposition and fragmentation of resins caused by the oxi degradation compromise the approval of the resin regarding requirements of the Resolution 105/99 of ANVISA (Brazilian National Agency of Sanitary Monitoring). The use of this aditives implicate the loss of the performance warranties described in this document.