

Low Density Polyethylene TX7001

Description:

TX7001 is a low-density polyethylene (LDPE) with high molecular weight, designed to satisfy those applications that require high mechanical strength and environmental stress cracking resistance (ESCR), together with good processability, proper of branched polyethylene produced by a high-pressure process. TX7001 resin presents an excellent performance in conventional LDPE extruders, granting low energy consumption during the whole process and allowing the production of packaging with a good dimensional uniformity and an excellent surface finishing. This product is identified as PE 115 according to ASTM D-4976-04a standard specification.

Control Properties:

| Feature | Method | Units | Values |
|-------------------------------|--------|-------------------|--------|
| Melt Flow Rate (190°C/2.16kg) | D 1238 | g/10 min | 0.14 |
| Density | D 792 | g/cm ³ | 0.922 |

Typicas Properties - Films:

Blow Film Reference Properties (a)

| Feature | Method | Units | Values |
|-------------------------------------|--------|-------|---------|
| Tensile Strength at Break (MD/TD) | D 882 | MPa | 25/25 |
| Elongation at Break (MD/TD) | D 882 | % | 350/940 |
| Tensile Modulus - 2% Secant (MD/TD) | D 882 | MPa | 150/170 |
| Dart Drop Impact | D 1709 | g/F50 | 230 |
| Elmendorf Tear Strength (MD/TD) | D 1922 | gF | 180/200 |
| Haze | D 1003 | % | 24 |
| Gloss - Angle 45° | D 2457 | % | 32 |
| Gloss - Angle 60° | D 2457 | % | 40 |

(a) Film of 70 µm thickness, obtained in a 50 mm extruder, with a blow ratio of 2.3: 1, a die opening of 1.0 mm. (DM = Direction of Extrusion and DT = Direction Transversal to Extrusion). (b) Not Determined.

Final Remarks

1. It is the sole responsibility of the Client/Purchaser of this Product to verify the suitability of this Product and its use for the intended use and to ensure compliance with legal and regulatory requirements applicable to the final product.
2. The technical guidance eventually rendered to the Client/Purchaser of the Product by Braskem about the Product does not characterize a performance guarantee for the intended application, nor does it exempt the Client/Purchaser from the responsibilities described in item 1 above.
3. Any application information about the Product does not mean that Braskem knows or has validated the productive process of the Client/Purchaser or the adequacy of the Product for the intended application. All warranties of merchantability or fitness for a particular purpose, express or implied, are expressly excluded.
4. The information provided herein is of the date hereof and Braskem may update, revise or amend the information contained herein at any time and without previous notice. The Client/Purchaser shall consult www.braskem.com to verify any updates to this information.
5. For regulatory information associated with the Product and its source, please consult the Regulatory Information Sheet (RIS). For other requests, please contact Braskem's Technical Services area.
6. The information contained herein is provided based on the best of Braskem's knowledge, indicating typical values of the properties of the Product, and such values shall not be considered absolute or as a guarantee.