Braskem

Datasheet
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# Low Density Polyethylene TX7003

## Description:

TX7003 is a low-density, high molecular-weight polyethylene that offers high mechanical strength. The product is highly versatile and can be used in several applications due to its easy processability and high compatibility with other types of polyethylene. TX7003 resin shows excellent performance with conventional extruders and low energy consumption during processing, which allows the production of packages with dimensional uniformity and excellent surface finishing. This product is identified as PE 115 according to ASTM D-4976-04a standard specification.

## Applications:

Blends with LLDPE, plastic covers, Roll films for high strength industrial packaging, Blends with HDPE

## Control Properties:

| Feature | Method | Units | Values |
|---|---|---|---|
| Melt Flow Rate (190°C/2.16kg) | D 1238 | g/10 min | 0.27 |
| Density | D 792 | g/cm³ | 0.922 |

## Typicas Properties - Films:

Blow Film Reference Properties (a)

| Feature | Method | Units | Values |
|---|---|---|---|
| Tensile Strength at Break (MD/TD) | D 882 | MPa | 20/20 |
| Elongation at Break (MD/TD) | D 882 | % | 380/910 |
| Tensile Modulus - 2% Secant (MD/TD) | D 882 | MPa | 140/150 |
| Dart Drop Impact | D 1709 | g/F50 | 230 |
| Elmendorf Tear Strength (MD/TD) | D 1922 | gF | 300/220 |
| Haze | D 1003 | % | 20 |
| Gloss - Angle 45º | D 2457 | % | 39 |
| Gloss - Angle 60º | D 2457 | % | 49 |

(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.
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