


Datasheet

26/12/2018

Low Density Polyethylene TS7003
Description:

TS7003 is a low density polyethylene (LDPE) with high molecular weight that offers high mechanical strength and toughness even at low temperatures. Additionally, this product is easily processed. The product was developed to meet the requirements for automatic packaging. The additive package provides low coefficient of friction - COF, allowing high productivity on the packaging lines. This product is identified as PE 115 according to ASTM D-4976-04a standard specification.

Applications:

Flexible packaging

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	0.27
Density	D 792	g/cm ³	0.922

Typical 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 45°	D 2457	%	41
Gloss - Angle 60°	D 2457	%	54

(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:

- The information presented in this Data Sheet reflects 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.
- For regulatory information of the product, please refer to Regulatory Document or contact our Technical Assistance Area.
- For information about safety, handling, individual protection, first aids and waste disposal, please refer to MSDS.
- The mentioned values in this report can be changed at any moment without Braskem previous communication.