

# Braskem PE TX7003

Low Density Polyethylene

Braskem

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## Technical Data

### Product 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.

### Application:

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

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">Braskem</a>
Availability	• Latin America
Features	• Good Processability • Good Surface Finish • High Molecular Weight • High Strength • Low Density
Uses	• Blending • Film • Industrial Applications • Packaging
Agency Ratings	• ASTM D4976-PE115
Processing Method	• Blown Film • Film Extrusion

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	0.922 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.27 g/10 min	ASTM D1238

Films	Nominal Value Unit	Test Method
Secant Modulus		ASTM D882
2% Secant, MD : 70 µm, Blown Film	140 MPa	
2% Secant, TD : 70 µm, Blown Film	150 MPa	
Tensile Strength		ASTM D882
MD : Break, 70 µm, Blown Film	20.0 MPa	
TD : Break, 70 µm, Blown Film	20.0 MPa	
Tensile Elongation		ASTM D882
MD : Break, 70 µm, Blown Film	380 %	
TD : Break, 70 µm, Blown Film	910 %	
Dart Drop Impact (70 µm, Blown Film)	230 g	ASTM D1709
Elmendorf Tear Strength		ASTM D1922
MD : 70 µm, Blown Film	300 g	
TD : 70 µm, Blown Film	220 g	

Optical	Nominal Value Unit	Test Method
Gloss		ASTM D2457
45°, 70.0 µm, Blown Film	39	
60°, 70.0 µm, Blown Film	49	
Haze (70.0 µm, Blown Film)	20.0 %	ASTM D1003

### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

