

## Braskem TX7003 LDPE Blown Film Extrusion Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

### Material Notes:

TX7003 is a low-density, high molecular-weight polyethylene that offers high mechanical strength. The product's characteristics allow for high versatility and use in various applications due to its easy processing and high compatibility with other types of polyethylene. TX7003 resin performs with conventional extruders and low energy consumption during processing, which allows production of packaging with dimensional uniformity and excellent surface finishing. This product is identified as PE 115 according to ASTM D-4976-04a standard specification. It does not contain additives. Its applications include: heavy duty bags, shrink film, and plastic canvas; technical films for high-strength industrial packaging; and blends with HDPE and LLDPE for extrusion and molding processes.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-TX7003-LDPE-Blown-Film-Extrusion-Polyethylene.php](http://www.lookpolymers.com/polymer_Braskem-TX7003-LDPE-Blown-Film-Extrusion-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in <sup>3</sup>	ASTM-D792
Melt Flow	0.27 g/10 min @Load 2.16 kg, Temperature 190 °C	0.27 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	370 %	370 %	ASTM-D882
Film Elongation at Break, TD	680 %	680 %	ASTM-D882
Secant Modulus, MD	0.140 GPa	20.3 ksi	2% Secant Modulus; ASTM-D882
Secant Modulus, TD	0.150 GPa	21.8 ksi	2% Secant Modulus; ASTM-D882
Elmendorf Tear Strength MD	300 g	300 g	ASTM-D1922
Elmendorf Tear Strength TD	220 g	220 g	ASTM-D1922
Elmendorf Tear Strength, MD	6.00 g/micron	152 g/mil	ASTM-D1922
Elmendorf Tear Strength, TD	4.40 g/micron	112 g/mil	ASTM-D1922
Dart Drop	3.80 g/micron	96.5 g/mil	ASTM-D1709
Dart Drop Test	190 g	0.419 lb	ASTM-D1709
Film Tensile Strength at Break, MD	27.0 MPa	3920 psi	ASTM-D882
Film Tensile Strength at Break, TD	24.0 MPa	3480 psi	ASTM-D882

Optical Properties	Metric	English	Comments
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Haze Optical Properties	12 % Metric	12 % English	ASTM-D1003 Comments
Gloss	47 %	47 %	Angle 45°; ASTM-D2457
	69 %	69 %	Angle 60°; ASTM-D2457

Processing Properties	Metric	English	Comments
Die Opening	0.100 cm	0.0394 in	Blow Film Extrusion
Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	Blow Film Extrusion

Descriptive Properties	Value	Comments
Mass Temperature (°C)	180-205	Blow Film Extrusion
Temperature Profile (°C)	160-205	Blow Film Extrusion

## Contact Songhan Plastic Technology Co.,Ltd.

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