Trithene® TX 7003

Low Density Polyethylene

Petroquimica Triunfo

Message:

Trithene®TX 7003 is a low density polyethylene material. This product is available in Latin America and is processed by film extrusion or blow molding.
Trithene®The main features of TX 7003 are:
high molecular weight
Good processability
accessible food
Good dimensional stability
Typical application areas include:
bag/lining
Movie
industrial applications
bottle
food contact applications

General Information	
Features	Good dimensional stability High molecular weight Workability, good Compliance of Food Exposure
Uses	Films Bags Industrial application Bottle
Agency Ratings	ANVISA n°105/99 ASTM D 1248, I, Class A, Cat. 5 FDA 21 CFR 177.1520(c) 2.1
Forms	Particle
Processing Method	Film extrusion Blow molding

Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.27	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, molding	11.0	MPa	ASTM D638
Fracture, molding	17.0	MPa	ASTM D638

Tensile Elongation (Break, Compression Molded)	590	%	ASTM D638
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.45		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
secant modulus			ASTM D882
5% secant, MD: 50 µm, blown film	115	MPa	ASTM D882
5% secant, TD: 50 µm, blown film	125	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 50 µm, blown film	27.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	23.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	300	%	ASTM D882
TD: Broken, 50 µm, blown film	630	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	190	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	300	g	ASTM D1922
TD: 50 µm, blown film	230	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	94.0	°C	ASTM D1525

Additional Information

Film properties taken from 50 µm blown film produced on a 50 mm extruder, L/D=25, die gap=1.0 mm, BUR=2.3:1Melt Mass-Flow Rate, ASTM D1238, 190°C/2.16 kg: 0.23 to 0.30 g/10 minDensity, ASTM D1505: 0.921 to 0.923 g/cm³

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	160 - 175	°C
Cylinder Zone 2 Temp.	170 - 185	°C
Cylinder Zone 3 Temp.	180 - 190	°C
Adapter Temperature	185 - 205	°C

Extrusion instructions

Recommended Blow Up Ratio: 2-3:1

Recommended distributors for this material

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