Trithene® TX 7001

Low Density Polyethylene

Petroquimica Triunfo

Message:

Trithene®TX 7001 is a low density polyethylene material. This product is available in Latin America and is processed by film extrusion, pipeline extrusion or extrusion.
Trithene®The main features of TX 7001 are:
high molecular weight
High resistance to environmental stress fracture (ESCR)
Good processability
accessible food
Good dimensional stability
Typical application areas include:
bag/lining
packing
Movie
industrial applications
container

General Information	
Features	Good dimensional stability
	High ESCR (Stress Cracking Resistance)
	High molecular weight
	Workability, good
	Compliance of Food Exposure
Uses	Packaging
	Films
	Bags
	Industrial application
	Pipe
	Piping system
	Container
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
	Pipeline extrusion molding
	Extrusion

Physical	Nominal Value	Unit	Test Method

Density	0.922	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.12	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, molding	11.0	MPa	ASTM D638
Fracture, molding	18.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	630	%	ASTM D638
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.40		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
secant modulus			ASTM D882
5% secant, MD: 50 µm, blown film	120	MPa	ASTM D882
5% secant, TD: 50 µm, blown film	130	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 50 µm, blown film	28.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	26.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	280	%	ASTM D882
TD: Broken, 50 µm, blown film	650	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	210	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	340	g	ASTM D1922
TD: 50 µm, blown film	280	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	95.0	°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: 0.10 to 0.14 g/10 minDensity, ASTM D1505: 0.921 to 0.923 g/cm³

Extrusion	**Nominal Value**	**Unit**
Cylinder Zone 1 Temp.	170 - 185	°C
Cylinder Zone 2 Temp.	180 - 195	°C
Cylinder Zone 3 Temp.	200 - 210	°C
Adapter Temperature	210 - 225	°C

Extrusion instructions

Recommended Blow Up Ratio: 2-3:1Recommended Die Gap: 0.8 to 1.0 mm

Recommended distributors for this material

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