Trithene® TX 7010

Low Density Polyethylene

Petroquimica Triunfo

Message:

Trithene®TX 7010 is a low density polyethylene material. This product is available in Latin America and is processed by film extrusion or co-extrusion.
Trithene®The main features of TX 7010 are:
high molecular weight
Good processability
accessible food
Typical application areas include:
Movie
industrial applications
food contact applications

General Information	
Features	High molecular weight Workability, good Compliance of Food Exposure
Uses	Films Industrial application
Agency Ratings	ANVISA n°105/99 ASTM D 1248, I, Class A, Cat. 4 FDA 21 CFR 177.1520(c) 2.1
Forms	Particle
Processing Method	Film extrusion Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, molding	10.0	MPa	ASTM D638
Fracture, molding	12.5	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	500	%	ASTM D638
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.60		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
secant modulus			ASTM D882

5% secant, MD: 50 µm, blown film	100	MPa	ASTM D882
5% secant, TD: 50 µm, blown film	110	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 50 µm, blown film	22.5	MPa	ASTM D882
TD: Broken, 50 µm, blown film	20.0	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)	180	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	400	g	ASTM D1922
TD: 50 µm, blown film	220	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	91.0	°C	ASTM D1525
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss			ASTM D2457
45, 50.0 µm, blown film	52		ASTM D2457
60, 50.0 µm, blown film	85		ASTM D2457
Haze (50.0 µm, Blown Film)	9.5	%	ASTM D1003

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: 0.80 to 1.2 g/10 minDensity, ASTM D1505: 0.921 to 0.923 g/cm³

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150 - 160	°C
Cylinder Zone 2 Temp.	155 - 165	°C
Cylinder Zone 3 Temp.	165 - 175	°C
Adapter Temperature	175 - 185	°C

Extrusion instructions

Recommended Blow Up Ratio: 2-3:1

Recommended distributors for this material

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