Trithene® TX 4003

Low Density Polyethylene + LLDPE

Petroquimica Triunfo

Message:

Trithene®TX 4003 is a low density polyethylene LLDPE material. This product is available in Latin America and is processed by film extrusion.
Trithene®The main features of TX 4003 are:
high molecular weight
accessible food
Impact resistance
Heat resistance
Typical application areas include:
bag/lining
Movie
industrial applications
food contact applications

General Information			
Features	High molecular weight Impact resistance, good Thermal stability, good Compliance of Food Exposure		
Uses	Films Bags Industrial application		
Agency Ratings	ANVISA n°105/99 FDA 21 CFR 177.1520(c) 2.1		
Forms	Particle		
Processing Method	Film extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.922	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.50		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	31.0	MPa	ASTM D882

TD: Broken, 50 µm, blown film	26.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	380	%	ASTM D882
TD: Broken, 50 µm, blown film	770	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	180	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	140	g	ASTM D1922
TD: 50 µm, blown film	270	g	ASTM D1922

Optical	Nominal Value	Unit	Test Method
Gloss (60°, 50.0 µm, Blown Film)	63		ASTM D2457
Haze (50.0 µm, Blown Film)	16	%	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=2.3:1Teor de Linear, PTN-736-Q: 22.5%

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 1.7 mm

Recommended distributors for this material

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