Trithene® TS 7001

Low Density Polyethylene

Petroquimica Triunfo

Message:

Trithene®TS 7001 is a low density polyethylene material. This product is available in Latin America and is processed by film extrusion.
Trithene®The main features of TS 7001 are:
high molecular weight
accessible food
Good dimensional stability
Typical application areas include:
Movie
food contact applications

General Information			
Features	Good dimensional stability Low friction coefficient High molecular weight Compliance of Food Exposure		
Uses	Films		
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		
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)	0.15		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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