Trithene® TS 7003

Low Density Polyethylene

Petroquimica Triunfo

Message:

Trithene®TS 7003 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 7003 are:
high molecular weight
Good processability
accessible food
Heat resistance
Typical application areas include:
Movie
food contact applications

General Information			
Features	Low friction coefficient High molecular weight Workability, good Thermal stability, good 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	0.923	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)	0.15		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

Optical	Nominal Value	Unit	Test Method
Gloss (60°, 50.0 µm, Blown Film)	64		ASTM D2457
Haze (50.0 µm, Blown Film)	18	%	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: 0.23 to 0.30 g/10 minDensity, ASTM D1505: 0.922 to 0.924 g/cm³

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	160 - 170	°C
Cylinder Zone 2 Temp.	165 - 175	°C
Cylinder Zone 3 Temp.	170 - 190	°C
Adapter Temperature	185 - 200	°C

Extrusion instructions

Recommended Blow Up Ratio: 2-3:1

Recommended distributors for this material

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