

Trithene® TS 7010

Low Density Polyethylene

Petroquímica Triunfo

Message:

Trithene®TS 7010 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 7010 are:

high molecular weight

Good processability

accessible food

Heat resistance

Typical application areas include:

packing

Movie

industrial applications

food contact applications

General Information			
Features	Low friction coefficient		
	High molecular weight		
	Good processing stability		
	Thermal stability, good		
	Compliance of Food Exposure		
Uses	Packaging		
	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		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	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)	0.15		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	75		ASTM D2457
Haze (50.0 µm, Blown Film)	11	%	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=2.3:1 Melt Mass-Flow Rate, ASTM D1238, 190°C/2.16 kg: 0.80 to 1.20 g/10 min Density, ASTM D1505: 0.921 to 0.923 g/cm ³			
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			

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