

Trithene® TS 9022

Low Density Polyethylene

Petroquímica Triunfo

Message:

Trithene®TS 9022 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 9022 are:

Good processability

Hard

accessible food

beautiful

Typical application areas include:

packing

Movie

food contact applications

General Information			
Features	Rigidity, high		
	Optical		
	Workability, good		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
Agency Ratings	ANVISA n°105/99		
	ASTM D 1248, II, Class A, Cat. 3		
	FDA 21 CFR 177.1520(c) 2.1		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.931	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	14.0	MPa	ASTM D638
Fracture, molding	12.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	520	%	ASTM D638
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.12		ASTM D1894
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882

5% secant, MD: 50 µm, blown film	150	MPa	ASTM D882
5% secant, TD: 50 µm, blown film	160	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 50 µm, blown film	20.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	18.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	380	%	ASTM D882
TD: Broken, 50 µm, blown film	680	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	100	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	330	g	ASTM D1922
TD: 50 µm, blown film	230	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	102	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 50.0 µm, Blown Film)	90		ASTM D2457
Haze (50.0 µm, Blown Film)	12	%	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: 1.8 to 2.6 g/10 minDensity, ASTM D1505: 0.929 to 0.933 g/cm ³			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150 - 160	°C	
Cylinder Zone 2 Temp.	160 - 170	°C	
Cylinder Zone 3 Temp.	165 - 170	°C	
Adapter Temperature	165 - 175	°C	
Extrusion instructions			
Recommended Blow Up Ratio: 2-3:1			

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