

Trithene® TS 3003

Low Density Polyethylene

Petroquímica Triunfo

Message:

Trithene®TS 3003 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 3003 are:

high molecular weight

High stiffness

Good processability

accessible food

Good dimensional stability

Typical application areas include:

packing

Movie

food contact applications

General Information			
Features	Good dimensional stability		
	Low friction coefficient		
	Rigidity, high		
	High elasticity		
	High molecular weight		
	Optical		
	Workability, good		
	Thermal stability, good		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
Agency Ratings	ANVISA n°105/99		
	ASTM D 1248, II, 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	0.926	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	12.0	MPa	ASTM D638
Fracture, molding	16.0	MPa	ASTM D638

Tensile Elongation (Break, Compression Molded)	620	%	ASTM D638
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.090		ASTM D1894
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
5% secant, MD: 50 µm, blown film	125	MPa	ASTM D882
5% secant, TD: 50 µm, blown film	130	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 50 µm, blown film	27.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	24.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	330	%	ASTM D882
TD: Broken, 50 µm, blown film	680	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	200	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	
Melting Temperature	114	°C	
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 50.0 µm, Blown Film)	96		ASTM D2457
Haze (50.0 µm, Blown Film)	8.0	%	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: 0.925 to 0.927 g/cm ³			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150 - 165	°C	
Cylinder Zone 2 Temp.	160 - 175	°C	
Cylinder Zone 3 Temp.	170 - 185	°C	
Adapter Temperature	180 - 195	°C	
Melt Temperature	180 - 210	°C	
Extrusion instructions			
Recommended Blow Up Ratio: 2-3:1Recommended Die Gap: 0.8 to 1.0 mm			

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