

Trithene® TX 3003

Low Density Polyethylene

Petroquimica Triunfo

Message:

Trithene®TX 3003 is a low density polyethylene material. This product is available in Latin America.

Trithene®The main features of TX 3003 are:

high molecular weight

high gloss

sterilizable

accessible food

Good dimensional stability

Typical application areas include:

Wrapping

Movie

food contact applications

General Information			
Features	Good dimensional stability		
	High molecular weight		
	Highlight		
	Good disinfection		
	Definition, high		
	Compliance of Food Exposure		
	Narrow molecular weight distribution		
Uses	Films		
	Shrinkable film		
Agency Ratings	ANVISA n°105/99		
	ASTM D 1248, II, Class A, Cat. 5		
	FDA 21 CFR 177.1520(c) 2.1		
Forms	Particle		
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)	0.45		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	350	g	ASTM D1922
TD: 50 µm, blown film	280	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	114	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 50.0 µm, Blown Film)	96		ASTM D2457
Haze (50.0 µm, Blown Film)	7.5	%	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: 2-3:1			

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Recommended distributors for this material

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