

Trithene® TX 8024

Low Density Polyethylene

Petroquimica Triunfo

Message:

Trithene®TX 8024 is a low density polyethylene material. This product is available in Latin America and is processed by film extrusion or co-extrusion.

Trithene®The main features of TX 8024 are:

- high molecular weight
- accessible food
- Transparency

Typical application areas include:

- packing
- Movie
- food contact applications

General Information	
Features	High molecular weight
	Definition, high
	Compliance of Food Exposure
	Narrow molecular weight distribution
Uses	Packaging
	Films
	Food packaging
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
	Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.923	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	12.0	MPa	ASTM D638
Fracture, molding	13.5	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	490	%	ASTM D638
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.60		ASTM D1894

Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
5% secant, MD: 50 µm, blown film	116	MPa	ASTM D882
5% secant, TD: 50 µm, blown film	122	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 50 µm, blown film	23.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	21.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	380	%	ASTM D882
TD: Broken, 50 µm, blown film	720	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	150	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	390	g	ASTM D1922
TD: 50 µm, blown film	360	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	98.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45, 50.0 µm, blown film	62		ASTM D2457
60, 50.0 µm, blown film	100		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: 0.80 to 1.2 g/10 minDensity, ASTM D1505: 0.922 to 0.924 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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