

# Trithene® CX 7020

Low Density Polyethylene

Petroquímica Triunfo

## Message:

Trithene® CX 7020 is a low density polyethylene material. This product is available in Latin America and is processed by film extrusion or injection blow molding.

Trithene® The main features of CX 7020 are:

Good processability

accessible food

Typical application areas include:

Movie

food contact applications

application of coating

General Information			
Features	Low speed solidification crystal point		
	Workability, good		
	Compliance of Food Exposure		
Uses	Films		
	Laminate		
Agency Ratings	ANVISA n°105/99		
	ASTM D 1248, I, Class A, Cat. 3		
	FDA 21 CFR 177.1520(c) 2.1		
Forms	Particle		
Processing Method	Film extrusion		
	Injection blowing molding		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, Compression Molded)	93		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	11.0	MPa	ASTM D638
Fracture, molding	12.5	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	550	%	ASTM D638

Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.65		ASTM D1894
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
5% secant, MD: 50 µm, blown film	95.0	MPa	ASTM D882
5% secant, TD: 50 µm, blown film	100	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 50 µm, blown film	21.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	19.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	370	%	ASTM D882
TD: Broken, 50 µm, blown film	650	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	140	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	420	g	ASTM D1922
TD: 50 µm, blown film	280	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	94.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 50.0 µm, Blown Film)	109		ASTM D2457
Haze (50.0 µm, Blown Film)	7.0	%	ASTM D1003
Additional Information			
Film properties taken from 50 µm blown film produced on a 50 mm extruder, L/D=25, die gap=1 mm, BUR=2.3:1Melt Mass-Flow Rate, ASTM D1238, 190°C/2.16 kg: 1.7 to 2.3 g/10 minDensity, ASTM D1505: 0.922 to 0.924 g/cm <sup>3</sup>			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	145 - 160	°C	
Cylinder Zone 2 Temp.	155 - 170	°C	
Cylinder Zone 3 Temp.	165 - 175	°C	
Adapter Temperature	175 - 190	°C	

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#### Recommended distributors for this material

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