

# Trithene® CX 8087

Medium Density Polyethylene

Petroquimica Triunfo

## Message:

Trithene®CX 8087 is a medium density polyethylene material. This product is available in Latin America and is processed by film extrusion.

Trithene®The main features of CX 8087 are:

Good processability

Hard

Trithene®The typical application fields of CX 8087 are: movies

General Information			
Features	Workability, good		
	Medium hardness		
Uses	Films		
Agency Ratings	ASTM D 1248, II, Class A, Cat. 3		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.931	g/cm <sup>3</sup>	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)	0.65		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)	11	%	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: 1.8 to 2.6 g/10 minDensity, ASTM D1505: 0.929 to 0.933 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

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

