Trithene® TE 8088

Medium Density Polyethylene

Petroquimica Triunfo

Message:

Trithene®TE 8088 is a medium density polyethylene material. This product is available in Latin America and is processed by film extrusion.
Trithene®The main features of TE 8088 are:
high molecular weight
Good processability
Hard
accessible food
Good dimensional stability
Typical application areas include:
Wrapping
packing
Movie
food contact applications

General Information	
Features	Good dimensional stability Low friction coefficient High molecular weight Optical Workability, good Thermal stability, good Compliance of Food Exposure Medium hardness
Uses	Packaging 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
Processing Method	Film extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.929	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	13.5	MPa	ASTM D638

Fracture, molding	17.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	550	%	ASTM D638
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.17		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
secant modulus			ASTM D882
5% secant, MD: 50 µm, blown film	145	MPa	ASTM D882
5% secant, TD: 50 µm, blown film	155	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 50 µm, blown film	26.5	MPa	ASTM D882
TD: Broken, 50 µm, blown film	23.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	320	%	ASTM D882
TD: Broken, 50 µm, blown film	630	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	150	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	300	g	ASTM D1922
TD: 50 µm, blown film	300	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	107	°C	ASTM D1525
Melting Temperature	117	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (60°, 50.0 µm, Blown Film)	76		ASTM D2457
Haze (50.0 µm, Blown Film)	14	%	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: 0.928 to 0.930 g/cm³

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: 2-3:1Film Thickness Range: 35 to 200 µm

Recommended distributors for this material

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