Trithene® TS 7045

Low Density Polyethylene

Petroquimica Triunfo

Message:

Trithene®TS 7045 is a low density polyethylene material. This product is available in Latin America and is processed by film extrusion.
Trithene®The main features of TS 7045 are:
Good processability
accessible food
beautiful
Heat resistance
Typical application areas include:
Movie
food contact applications

General Information			
Features	Low friction coefficient		
	Optical		
	Workability, good		
	Thermal stability, good		
	Compliance of Food Exposure		
Uses	Films		
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		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.924	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, molding	10.0	MPa	ASTM D638
Fracture, molding	12.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	540	%	ASTM D638
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.090		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
secant modulus			ASTM D882
5% secant, MD: 50 µm, blown film	90.0	MPa	ASTM D882
5% secant, TD: 50 µm, blown film	99.0	MPa	ASTM D882

Tensile Strength			ASTM D882
MD: Broken, 50 µm, blown film	18.5	MPa	ASTM D882
TD: Broken, 50 µm, blown film	15.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	350	%	ASTM D882
TD: Broken, 50 µm, blown film	650	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	130	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	600	g	ASTM D1922
TD: 50 µm, blown film	330	g	ASTM D1922

Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45, 50.0 µm, blown film	63		ASTM D2457
60, 50.0 µm, blown film	105		ASTM D2457
Haze (50.0 µm, Blown Film)	8.8	%	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: 4.0 to 5.0 g/10 minDensity, ASTM D1505: 0.922 to 0.925 g/cm³

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	135 - 150	°C
Cylinder Zone 2 Temp.	145 - 160	°C
Cylinder Zone 3 Temp.	150 - 165	°C
Adapter Temperature	160 - 175	°C

Extrusion instructions
Recommended Blow Up Ratio: 2-3.5:1

Recommended distributors for this material

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