Trithene® TS 4016

Low Density Polyethylene + LLDPE

Petroquimica Triunfo

Message:

Trithene®TS 4016 is a low density polyethylene LLDPE material. This product is available in Latin America and is processed by film extrusion.
Trithene®The main features of TS 4016 are:
Good processability
accessible food
Heat resistance
Typical application areas include:
Movie
food contact applications

General Information			
Features	Workability, good Thermal stability, good Compliance of Food Exposure		
Uses	Films		
Agency Ratings	ANVISA n°105/99 FDA 21 CFR 177.1520(c) 2.1		
Forms	Particle		
Processing Method	Film extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.923	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.6	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.10		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
secant modulus			ASTM D882
5% secant, MD: 50 µm, blown film	100	MPa	ASTM D882
5% secant, TD: 50 µm, blown film	110	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 50 µm, blown film	25.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	22.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	460	%	ASTM D882
TD: Broken, 50 µm, blown film	780	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	160	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922

MD: 50 µm, blown film	350	g	ASTM D1922
TD: 50 µm, blown film	530	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	96		ASTM D2457
Haze (50.0 µm, Blown Film)	9.0	%	ASTM D1003

Additional Information
Film properties taken from 50 µm blown film produced on a 50 mm extruder, L/D=25, die gap=1.0 mm, BUR=2.3:1Teor de Linear, PTN-736-Q: 22.5%

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	160 - 165	°C
Cylinder Zone 2 Temp.	170 - 175	°C
Cylinder Zone 3 Temp.	170 - 180	°C
Adapter Temperature	175 - 185	°C

Extrusion instructions
Recommended Blow Up Ratio: 2.5:1

Recommended distributors for this material

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