Trithene® TU 3001

Low Density Polyethylene

Petroquimica Triunfo

Message:

Trithene®TU 3001 is a low density polyethylene material. This product is available in Latin America and is processed by film extrusion.
Trithene®The main features of TU 3001 are:
high molecular weight
Good processability
Good UV resistance
UV stability
Typical application areas include:
Movie
Agriculture
food contact applications

General Information			
Additive	UV stabilizer		
Features	High molecular weight Good UV resistance Workability, good		
Uses	Films Agricultural application		
Agency Ratings	ANVISA n°105/99 ASTM D 1248, I, Class A, Cat. 5 FDA 21 CFR 177.1520(c) 2.1		
Appearance	Clear/transparent		
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)	0.14	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, molding	11.0	MPa	ASTM D638
Fracture, molding	18.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	630	%	ASTM D638
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.40		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**

secant modulus			ASTM D882
5% secant, MD: 150 µm, blown film	92.0	MPa	ASTM D882
5% secant, TD: 150 µm, blown film	91.0	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 150 µm, blown film	20.0	MPa	ASTM D882
TD: Broken, 150 µm, blown film	22.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 150 µm, blown film	600	%	ASTM D882
TD: Broken, 150 µm, blown film	740	%	ASTM D882
Dart Drop Impact (150 µm, Blown Film)	400	g	ASTM D1709B
Elmendorf Tear Strength			ASTM D1922
MD: 150 µm, blown film	440	g	ASTM D1922
TD: 150 µm, blown film	720	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 150 µm, Blown Film)	62		ASTM D2457
Haze (150 µm, Blown Film)	16	%	ASTM D1003

Additional Information

Film properties taken from 150 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: 0.12 to 0.16 g/10 minDensity, ASTM D1505: 0.922 to 0.924 g/cm³

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150 - 185	°C
Cylinder Zone 2 Temp.	180 - 195	°C
Cylinder Zone 3 Temp.	200 - 220	°C

Extrusion instructions

Recommended Blow Up Ratio: 2-3:1

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