

Trithene® TU 8091

Low Density Polyethylene

Petroquimica Triunfo

Message:

Trithene®TU 8091 is a low density polyethylene material. This product is available in Latin America.

Trithene®The main features of TU 8091 are:

high molecular weight

Good processability

Antioxidants

Good UV resistance

Impact resistance

Typical application areas include:

Movie

Agriculture

General Information			
Additive	Antioxidation UV stabilizer		
Features	High molecular weight Antioxidation Impact resistance, good Good UV resistance Workability, good Thermal stability, good		
Uses	Films Agricultural application		
Appearance	Clear/transparent		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.12	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)	0.56		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	96.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 150 µm, Blown Film)	62		ASTM D2457
Transmittance (150 µm)	94.0	%	ASTM D1003
Haze (150 µm, Blown Film)	13	%	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: 0.10 to 0.14 g/10 minDensity, ASTM D1505: 0.922 to 0.924 g/cm ³ Teor de Agente Anti-U.V., PTN-723-Q: 4750 to 5500 ppm			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	170 - 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			

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