

TOTAL Polyethylene Lotrène® Q2018 C

Linear Low Density Polyethylene

TOTAL Refining & Chemicals

Message:

Lotrène ® Q2018 C is an ethylene-butene copolymer produced in a gas phase reactor. It is designed for delivering competitive performance in most cast film applications.

Lotrène ® Q2018 C can be processed at high output rates with moderate extrusion pressure, good bubble stability and gauge control on cast film machine designed for LLDPE.

Lotrène ® Q2018 C can advantageously be blended with LDPE or other PE resins used in blown film mono extrusion or coextrusion to improve film properties.

Lotrène ® Q2018 C is suited for many applications in the field of consumer, industrial, food or hygiene packaging as well as stretch film and non-packaging applications like agricultural films e.g. mulching films.

General Information	
Additive	Antioxidation
Features	Butene comonomer
	Antioxidation
Uses	Packaging
	Films
	Industrial application
	Agricultural application
	Food packaging
Processing Method	Film extrusion
	Blow film
	Co-extrusion molding
	cast film

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Tensile Modulus			ISO 178
1% secant, MD: 20 µm, cast film	165	MPa	ISO 178
1% secant, TD: 20 µm, cast film	170	MPa	ISO 178
Tensile Stress			ISO 527-3
MD: Yield, 20 µm, cast film	9.70	MPa	ISO 527-3
TD: Yield, 20 µm, cast film	9.60	MPa	ISO 527-3
MD: Fracture, 20 µm, cast film	37.0	MPa	ISO 527-3
TD: Fracture, 20 µm, cast film	23.0	MPa	ISO 527-3

Tensile Elongation			ISO 527-3
MD: Fracture, 20 µm, cast film	330	%	ISO 527-3
TD: Fracture, 20 µm, cast film	670	%	ISO 527-3
Dart Drop Impact ¹ (20 µm, Cast Film)	35	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 20.0 µm	12.0	kN/m	ISO 6383-2
TD : 20.0 µm	193.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature ²	100	°C	ASTM D1525
Melting Temperature	121	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.0 µm, Cast Film)	92		ASTM D2457
Haze (20.0 µm, Cast Film)	1.8	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 250	°C	
Extrusion instructions			
Line speed: > 400 m/minDie gap: > 0.8 mmFilm properties are measured on cast line with following parameters: 30 mm screw diameter, L/D = 30:1, die length = 600 mm, die gap = 0.8 mm, line speed = 50 m/min, temperature setting = 180-230°C. Melt temperature = 250 °C and Chill roll temperature = 25 °C			
NOTE			
1.	F50		
2.	A120		

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