TOTAL Polyethylene Lotrène® Q2018 H

Linear Low Density Polyethylene

TOTAL Refining & Chemicals

Message:

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

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

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

Lotrène ® Q2018 H is suited for many applications in the field of consumer, industrial, food or hygiene packaging such as collation shrink, liners, Form-Fill-Seal, heavy-duty sacks, refuse sacks or other bags and non-packaging applications like agricultural films e.g. tunnel and mulching films.

General Information			
Additive	Erucamide Lubricating Additive (1500 ppm)		
	Anti-caking agent (3200 ppm)		
	Antioxidation		
Features	Butene comonomer		
	smoothness		
	Antioxidation		
Uses	Packaging		
	Films		
	Lining		
	Bags		
	Industrial application		
	Agricultural application		
	Food packaging		
	Shrinkable film		
	Heavy packing bag		
Processing Method	Film extrusion		
	Blow film		
	Co-extrusion molding		
	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm³	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	40	μm	

Tensile Modulus			ISO 178
1% secant, MD: 40 µm, blown film	215	MPa	ISO 178
1% secant, TD: 40 µm, blown film	245	MPa	ISO 178
Tensile Stress			ISO 527-3
MD: Yield, 40 µm, blown film	11.0	MPa	ISO 527-3
TD: Yield, 40 µm, blown film	11.0	MPa	ISO 527-3
MD: Broken, 40 µm, blown film	35.0	MPa	ISO 527-3
TD: Broken, 40 µm, blown film	33.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 40 µm, blown film	850	%	ISO 527-3
TD: Broken, 40 µm, blown film	900	%	ISO 527-3
Dart Drop Impact ¹ (40 µm, Blown Film)	130	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 40.0 µm	55.0	kN/m	ISO 6383-2
TD : 40.0 μm	105.0	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°, 40.0 µm, Blown Film)	55		ASTM D2457
Haze (40.0 µm, Blown Film)	14	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	170 - 210	°C	
Extrusion instructions			

BUR: 2:1 to 3:1Die gap: > 1.8 mmFigures obtained using laboratory test specimens produced with the following extrusion conditions: 45 mm screw, L/D = 30, die gap = 2.2 mm, BUR = 2.5:1, temperature = 210° C.

NOTE	
1.	F50
2.	A120

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