TOTAL Polyethylene Lotrène® Q1018 H

Linear Low Density Polyethylene

TOTAL Refining & Chemicals

Message:

Lotrène ® Q1018 H is an ethylene-butene copolymer produced in a gas phase reactor. It is designed for delivering competitive performance in most blown film applications.
Lotrène ® Q1018 H can be processed at high output rates with moderate extrusion pressure, good bubble stability and gauge control on blown film machine designed for LLDPE.
Lotrène ® Q1018 H can advantageously be blended with LDPE or other PE resins used in blown film mono extrusion or coextrusion to improve film properties.
Lotrène ® Q1018 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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	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	38.0	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	800	%	ISO 527-3
TD: Broken, 40 µm, blown film	850	%	ISO 527-3
Dart Drop Impact [1] (40 µm, Blown Film)	150	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 40.0 µm	70.0	kN/m	ISO 6383-2
TD : 40.0 µm	120.0	kN/m	ISO 6383-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature [2]	100	°C	ASTM D1525
Melting Temperature	122	°C	Internal method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 40.0 µm, Blown Film)	57		ASTM D2457
Haze (40.0 µm, Blown Film)	12	%	ISO 14782
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	180 - 220	°C	
Extrusion instructions			
BUR: 2:1 to 3:1Die gap: > 1.8 mmFilm figures are obtained using laboratory test specimens produced with the following extrusion conditions: 45 mm screw, L/D = 30, die = 120 mm, die gap = 2.2 mm, BUR = 2.5:1, temperature = 210°C.			
NOTE			
1.	F50		
2.	A120		

Recommended distributors for this material

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