

# Lotrène® LLDPE Q1018H

Linear Low Density Polyethylene

QATOFIN Company Limited

### Message:

Lotrène® Q1018 Series are Linear Low Density Polyethylene resins produced in a gas phase reactor using butene (C4) co-monomer. They are designed for blown film applications and can be used in pure form as well as blended with other PE resins, such as LDPE or HDPE and mPE resins for mono extrusion or co-extrusion process to modify film properties.

Lotrène® Q1018 Series are suited for many applications in the field of consumer, agricultural, industrial, food or hygiene packaging, for example: collation shrink, liners, FFS bags, heavy duty sacks, refuse, tunnel films, mulching films...

General Information			
Additive	Erucamide Lubricating Additive (1500 ppm)		
	Anti-caking agent (3200 ppm)		
	heat stabilizer		
Features	Butene comonomer		
	smoothness		
	Anti-caking property		
	Thermal Stability		
Uses	Packaging		
	Thin wall packaging		
	Films		
	Lining		
	Bags		
	Industrial application		
	Mixing		
	Agricultural application		
	Food packaging		
	Shrinkable film		
	Consumer goods application field		
	Heavy packing bag		
Processing Method	Film extrusion		
	Blow film		
	Co-extruded 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)	1.0	g/10 min	ASTM D1238

Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% secant, MD: 40 µm, blown film	215	MPa	ASTM D882
1% secant, TD: 40 µm, blown film	245	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 40 µm, blown film	11.0	MPa	ASTM D882
TD: Yield, 40 µm, blown film	11.0	MPa	ASTM D882
MD: Broken, 40 µm, blown film	38.0	MPa	ASTM D882
TD: Broken, 40 µm, blown film	33.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 40 µm, blown film	800	%	ASTM D882
TD: Broken, 40 µm, blown film	850	%	ASTM D882
Dart Drop Impact <sup>1</sup> (40 µm, Blown Film)	150	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 40 µm, blown film	280	g	ASTM D1922
TD: 40 µm, blown film	480	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525
Peak Crystallization Temperature (DSC)	122	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 µm, Blown Film)	60		ASTM D2457
Haze (40.0 µm, Blown Film)	11	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 - 220	°C	
Cylinder Zone 2 Temp.	180 - 220	°C	
Cylinder Zone 3 Temp.	180 - 220	°C	
Cylinder Zone 4 Temp.	180 - 220	°C	
Cylinder Zone 5 Temp.	180 - 220	°C	
Melt Temperature	200	°C	
Extrusion instructions			
Blow-up ratio: 2:1 to 3:1 Die gap: >1.8 mm			
NOTE			
1.	F50		

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