Lotrène® LLDPE Q2018H

Linear Low Density Polyethylene

QATOFIN Company Limited

Message:

Lotrène ® Q2018 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® Q2018 Series are suited for many applications in the field of consumer, industrial, food or hygiene packaging such as freezer film, bread bags, shoppers and bags as well as lamination film and multilayer packaging film.

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				
	Laminate				
	Bags				
	Multilayer film				
	Industrial application				
	Mixing				
	Food packaging				
	Consumer goods application field				
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)	2.0	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% secart. TD: 40 µm. blown film245MFaASTM D882Tensile Strength11.0MPaASTM D882TD: Yield, 40 µm, blown film11.0MPaASTM D882TD: Yield, 40 µm, blown film35.0MPaASTM D882TD: Broken, 40 µm, blown film32.0MPaASTM D882TD: Broken, 40 µm, blown film850%ASTM D882TD: Broken, 40 µm, blown film800%ASTM D882TD: Broken, 40 µm, blown film800%ASTM D882Dart Drop Impact ¹ (4) µm, Blown film130gASTM D799Dart Drop Impact ¹ (4) µm, Blown film220gASTM D1922TD: 40 µm, Blown film210rcASTM D1922TD: 40 µm, Blown film100rcASTM D1922TD: 40 µm, Blown film5Test MethodGloss (45', 40.0 µm, Blown Film)14%ASTM D2457Haze (40 µm, Blown Film)16rcTest MethodGloss (45', 40.0 µm, Blown Film)170 - 210rcTest MethodGlinder Zone 1 Tenp,170 - 210rCTest MethodCylinder Zone 3 Tenp,170 - 210				
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TD: Yield, 40 µm, blown film 11.0 MPa ASTM D882 MD: Broken, 40 µm, blown film 35.0 MPa ASTM D882 TD: Broken, 40 µm, blown film 32.0 MPa ASTM D882 Tensile Elongation	Tensile Strength			ASTM D882
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NOTE	Extrusion instructions			
	Blow-up ratio: 2:1 to 3:1Die gap: >1.8 mm			
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