Lotrène® LLDPE Q2018M

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 (1000 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% 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	35.0	MPa	ASTM D882
TD: Broken, 40 µm, blown film	32.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 40 µm, blown film	850	%	ASTM D882
TD: Broken, 40 µm, blown film	900	%	ASTM D882
Dart Drop Impact [1] (40 µm, Blown Film)	130	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 40 µm, blown film	220	g	ASTM D1922
TD: 40 µm, blown film	420	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	100	°C	ASTM D1525
Peak Crystallization Temperature (DSC)	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	%	ASTM D1003
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	170 - 210	°C	
Cylinder Zone 2 Temp.	170 - 210	°C	
Cylinder Zone 3 Temp.	170 - 210	°C	
Cylinder Zone 4 Temp.	170 - 210	°C	
Cylinder Zone 5 Temp.	170 - 210	°C	
Melt Temperature	190	°C	
Extrusion instructions			
Blow-up ratio: 2:1 to 3:1Die gap: >1.8 mm			
NOTE			
1.	F50		

Recommended distributors for this material

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