



Producer: QATOFIN Company Limited / Qatar

## Lotrène® Q2018 Series

### Description:

**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.

### Additive Package:

Product	Slip (Erucamide) (ppm)	Antiblock (ppm)	Thermal Stabilizers
Q2018N	No	No	Yes
Q2018H	1500	3200	Yes

POLYMER PROPERTIES	VALUE	UNIT	TEST METHOD
Density @ 23 °C *	0.918	g/cm <sup>3</sup>	ASTM D-792
Melt Flow Index (190 °C /2.16 kg)	2.0	g/10 min.	ASTM D-1238
Crystalline Melting Point	121	°C	Internal
Vicat Softening Point	100	°C	ASTM D-1525 (A120)

Density and MFI are routinely measured during the standard quality control procedure. Other figures are given for information only. This data is not intended for specification purposes.

\* Density of base resin

FILM PROPERTIES	VALUE (*)	UNIT	TEST METHOD
Tensile Strength @ Yield MD/ TD	11/11	Mpa	ASTM D-882
Tensile Strength @ Break MD/ TD	35/32	Mpa	ASTM D-882
Elongation @ Break MD/ TD	850/900	%	ASTM D-882
Secant modulus @ 1% MD/ TD	215/245	Mpa	ASTM D-882
Impact Strength, F 50	130	g	ASTM D-1709
	220/420	g	
Tear resistance MD/ TD	55/105	N/mm	ASTM D- 1922
Haze	14	%	ASTM D-1003
Gloss (@ 45 °)	55	-	ASTM D-2457

(\*)The above properties are measured on a blown film under following parameters:

Screw 45 mm, L/D 30, die gap 2.2 mm, output 30 kg/hr, mass temperature 210°C, thickness 40 µm and BUR 2.5:1

**Note:** The values given in this technical data sheet are the results of tests carried out in accordance with standard test procedures. They are given as indication to enable customers to make the best use of our products but must be considered as average values provided without implying any undertaking from the manufacturer. Actual properties might differ depending on additivation and extrusion conditions.

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**Lotrène® Q2018 Series****Processing:**

Extrusion temperatures: 170-210 °C

Melt temperature 190 °C

Blow-up ratio: 2:1 to 3:1

Die gap: > 1.8 mm

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

**Lotrène® Q2018** Series can be blended with LDPE and other PE resins in order to improve film properties or processability on conventional mono or co extrusion machines.

**Handling and Storage:**

**Lotrène® Q2018** Series should be stored in its original Packaging or in clean appropriate silos. The product should be stored in a dry and well ventilated area.

**Lotrène® Q2018** Series should not be stored for more than three months nor be exposed to direct sunlight and/or heating during storage since this may adversely affect the properties of the product.

NB: **Lotrène® Q2018** Series are not suitable for application in the pharmaceutical or medical sector.