Technical Data Sheet

Lotrène® Q1018 Series

Linear Low Density Polyethylene (LLDPE)

Description and use:

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…

Additive Package:

Product	Slip (Erucamide) (ppm)	Antiblock (ppm)	Thermal Stabilizers
Q1018N	No	No	Yes
Q1018M	1000	3200	Yes
Q1018H	1500	3200	Yes

Values indicated are target values. Actual values might differ from batch to batch.

PROPERTIES:

POLYMER PROPERTIES	VALUE	UNIT	TEST METHOD
Density @ 23 °C *	0.918	g/cm3	ASTM D-792
Melt Flow Index (190 °C /2.16 kg)	1.0	g/10 min.	ASTM D-1238
Crystalline Melting Point	122	°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

QATOFIN Company Limited P. O. Box 55013, Doha, State of Qatar Tel: +974 4242555, Fax: +974 4325936,

Email: info@qatofin.com.qa http://www.qatofin.com.qa

Supplied by Polymer in Stock · www.polymerinstock.com · +971 6 543 0015

Lotrène® Q1018 Series

FILM PROPERTIES	VALUE (*)	UNIT	TEST METHOD
Tensile Strength @ Yield MD/ TD	11/11	MPa	ASTM D-882
Tensile Strength @ Break MD/ TD	38/33	MPa	ASTM D-882
Elongation @ Break MD/ TD	800/850	%	ASTM D-882
Secant modulus @ 1% MD/ TD	215/245	MPa	ASTM D-882
Impact Strength, F 50	150	g	ASTM D-1709
Tear resistance MD/ TD	280/480 70/120	g N/mm	ASTM D- 1922
Haze	11	%	ASTM D-1003
Gloss (@ 45 °)	60	-	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 resin manufacturer. Actual properties might vary depending on additivation and extrusion conditions.

Processing:

Extrusion temperatures: 180-220 °C
Melt temperature 200 °C
Blow-up ratio: 2:1 to 3:1
Die gap: > 1.8 mm

Lotrène® Q1018 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 Q1018 Series can be blended with LDPE and other PE resins in order to improve film properties or processability on conventional mono or coextrusion machines.

Handling and Storage:

Lotrène® Q1018 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® Q1018 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®** Q1018 Series are not suitable for application in the pharmaceutical or medical sector.

QATOFIN Company Limited P. O. Box 55013, Doha, State of Qatar Tel: +974 4242555, Fax: +974 4325936,

Email: info@qatofin.com.qa http://www.qatofin.com.qa

Supplied by Polymer in Stock · www.polymerinstock.com · +971 6 543 0015