



SAFFRON GROUP

Q2018C - Linear Low Density Polyethylene

Product Specification

DESCRIPTION AND USE

Q2018C is a Linear Low Density Polyethylene resin produced in a gas phase reactor using butene (C4) co-monomer.

Lotrène® Q2018C can be processed at optimal output rates with moderate extrusion pressure, good web stability and gauge control on cast film machines designed for LLDPE. Q2018C can advantageously be blended with LDPE or other PE resins used in cast film mono extrusion or co-extrusion to improve film properties.

Q2018C is for melt index 2.0 cast stretch film market. It is suited for many applications in the field of consumer, industrial, food or hygiene packaging as well as non-packaging applications like agricultural films e.g. mulching films.

ADDITIVE PACKAGE

PRODUCT	SLIP (ERUCAMIDE)	ANTIBLOCK	PROCESSING AID	THERMAL STABILIZERS
Q2018C	no	no	no	Yes (blown film)

CHARACTERISTIC

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

(*Density of base resin)

FOR MORE INFORMATION :

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CAST FILM PROPERTIES

FILM PROPERTIES	VALUE (*)	UNIT	TEST METHOD
Tensile Strength @ Yield MD/TD	9.7 / 9.6	Mpa	ASTM D-882
Tensile Strength @ Break MD/TD	37 / 23	Mpa	ASTM D-882
Elongation @ Break MD/TD	330 / 670	%	ASTM D-882
Elmendorf Tear Resistance MD/TD	12 / 193	N/mm	ASTM D-1922
Secant Modulus @1% MD/TD	165 / 170	Mpa	ASTM D-882
Dart Test, F 50	35	g	ASTM D-1709
Puncture Force	25	N	ASTM D-5748
Puncture Energy	1.6	J	ASTM D-5748
Haze	1.8	%	ASTM D-1003
Gloss (@ 45°)	92		ASTM D-2457

(The above properties are measured on ablown film under following parameters:

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

PROPERTIES

Q2018C is typically extruded at a melt temperatures between 220 and 250°C. Q2018C can be cast in the following conditions on machine designed for LLDPE:

- Extrusion temperature: 180 to 270°C
- Line speed: > 400 m/min
- Die gap: > 0.8 mm

An excellent blending ability of Q2018C with LDPE and HDPE and mLLDPE was observed.

HANDLING & STORAGE

Polyethylene products should be stored in their original packaging or in clean appropriate silos.

The products should be stored in a dry and well-ventilated area and should not be exposed to direct sunlight and/ or heat in any form since this may adversely affect their properties.

As a general rule, our products should not be stored for more than three months from receipt date.

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SAFETY

Under normal conditions Q2018C product does not present a toxic hazard through skin contact or inhalation. For detailed information please refer to the Safety Data Sheet.

NOT SUITABLE FOR PHARMACEUTICAL OR MEDICAL APPLICATIONS

Q2018C product is not suitable for pharmaceutical or medical applications.

Technical Disclaimer

The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes. Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question, and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suitable for, and the information is applicable to, the user's specific application. Muntajat does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, expressed or implied, or allegedly arising from any usage of any trade or from any course of dealing, in connection with the use of the information contained herein or the product itself. The user expressly assumes all risks and liabilities, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Trademarks may not be used in any manner other than expressly authorized in a written agreement and no trademark or license rights of any kind are granted hereunder, by implication or otherwise.

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