Üretici web sitesi: qapco.com

LDPE/2023/FE3000
Date:13/04/2023

Lotrène FE3000

LOW DENSITY POLYETHYLENE

Low Density Polyethylene

DESCRIPTION

Lotrène® FE3000 is an additive free grade produced by a tubular high pressure process mainly recommended for heavy duty film applications.

PROPERTIES

Lotrène® FE3000 is offering high strength combined with good optical properties. Lotrène® FE3000 has a molecular structure allowing to produce films with excellent optical properties, very good shrink properties and good mechanical properties.

POLYMER PROPERTIES	VALUE	UNIT	TEST METHOD
Melt Flow Index	0.30	g/10 min.	ASTM D-1238
Density @ 23 °C	0.923	g/cm3	ASTM D-792
Crystalline Melting Point	112	°C	ASTM E-794
Vicat Softening Point	99	°C	ASTM D-1525

FILM PROPERTIES	VALUE	UNIT	TEST METHOD
Tensile Strength @ Yield MD/ TD	12/12	MPa	ASTM D-882
Tensile Strength @ Break MD/ TD	35/29	MPa	ASTM D-882
Elongation @ Break MD/ TD	400/600	%	ASTM D-882
Impact Strength, F 50	150	g	ASTM D-1709
Tear resistance MD/ TD	47/47	N/mm	ASTM D-1922
Puncture Force	62	N	Internal Method
Coefficient Of friction	0.75		ASTM D-1894
Haze	8	%	ASTM D-1003
Gloss (@ 45)	56		ASTM D-2457

(Film properties stated above have been obtained using 40 µm blown films laboratory test specimens produced under following conditions: 45 mm screw with L/D = 30, die diameter 120 mm, die gap 1.56 mm, BUR 2.5:1).

PROCESSING

Lotrène® FE3000 can be easily processed on all types of extruders designed for polyethylene.
The melt temperature is suggested to be in the range of 180-210 °C.
The best and balanced properties of the blown film are achieved at blow up ratios between 2.0: 1 and 3.5:1.
The recommended thickness range is from 40 µm to 200 µm.

APPLICATIONS

- Heavy duty bags
- Industrial shrink film
- Construction film
- Agricultural film

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.

SAFETY

Under normal conditions Lotrène® products do not present a toxic hazard through skin contact or inhalation.
For detailed information please refer to the Safety Data Sheet.

FOOD CONTACT & REACH

Lotrène® polyethylene products manufactured by Qatar Petrochemical Company (QAPCO) Q.S.C. comply with US, EU and other food contact legislations. Limitations may apply.
All QAPCO Lotrène products are complying with REACH Regulation 1907/2006/EC. The aims of this regulation are to improve the protection of human health and the environment through better and earlier identification of the intrinsic properties of chemical substances.
Please contact your Muntajat representative for detailed compliance certificates.

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. QAPCO 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.

QAPCO
شركة قطر للبتروكيماويات
QATAR PETROCHEMICAL COMPANY

Qatar Petrochemical Company (QAPCO) Q.S.C
P. O. Box 50155, Mesaieed, State of Qatar
Tel : (+974) 4477 7111, Fax : (+974) 4477 1346
www.qapco.com