Producer: QATAR PETROCHEMICAL COMPANY / QATAR

LDPE FB3000

DESCRIPTION

Lotrène® FE3000 is an additive free grade produced by a tubular high pressure process, offering high strength combined with good optical properties, mainly recommended for heavy duty film applications.

PROPERTIES

Lotrène® FE3000 has a suitable mo ecular structure to produce film with excellent optical properties, very good shrink properties and good mechanical properties.

PROPERTY	TEST	UNIT	VALUE
POLYMER PROPERTIES			
Melt Flow Index	ASTM D-1238	g/10 min.	0.30
Density @ 23 °C	ASTM D-1505	g/cm3	0.923
Crystalline Melting Point	ASTM E-794	°C	111
Vicat Softening Point	ASTM D-1525	°C	95
FILM PROPERTIES			
Tensile Strength @ Yield MD/ TD	ASTM D-882	MPa	11/10
Tensile Strength @ Break MD/ TD	ASTM D-882	MPa	24/23
Elongation @ Break MD/ TD	ASTM D-882	%	400/600
Impact Strength, F 50	ASTM D-1709	g	210
Coefficient Of friction	ASTM D-1894	-	0.50
Haze	ASTM D-1003	%	12
Gloss (@ 45 °)	ASTM D-2457	-	5
Clarity	ASTM D-1746	%	40

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Note: The values given in this technical data sheet are provisional data 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 on our part.

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.

To avoid blocking and shrinkage on the reel, temperature at the nip rolls and take-off should be kept as close as possible to the ambient temperature.

The recommended thickness range is from 50 μm to 250 μm.

APPLICATIONS

- Heavy duty bags
- Industrial shrink film
- Construction film
- Agricultural film
- Drip irrigation pipe

SAFETY AND STORAGE

Under normal conditions **Lotrène® FE3000** does not present a toxic hazard through skin contact or inhalation. During processing, contact with molten polymer and inhalation of volatilized fumes should be avoided.

Lotrène® FE3000 complies with food grade regulations FDA, 21 CFR chapter 177 – 1520 "Olefin Polymers". Items made from this grade do not transmit tastes nor odor to the material in contact with.

Lotrène® FE3000 is inflammable and combustible (category 3) according to ISO R 1210.

Lotrène® FE3000 is supplied in plastic bags of 25 kg (net weight) each. The bags are stacked and shrink wrapped on pallets of 1500 kg each (net weight). The product is forwarded either by trucks or in 20- 40foot sea containers.

Lotrène® FE3000 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® FE3000** is not suitable for application in the pharmaceutical or medical sector.