

Producer: QATAR PETROCHEMICAL COMPANY / QATAR

LDPE FD0274

DESCRIPTION:

Lotrene ® FD0274 is mainly recommended for the extrusion of thin film for light and medium duty applications. It contains both slip agent and anti blocking devise.

PROPERTIES:

The suitable molecular structure of Lotrene ® FD0274 makes it possible to produce very thin, clear and glossy films.

Lotrene ® FD0274 gives films of especially good dimensional stability with easy sealing no matter what type of machine is used.

PROPERTY	TEST	UNIT	VALUE
POLYMER PROPERTIES			
Melt flow index	ASTM D – 1238	g/10min	2.4
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	94
POLYMER PROPERTIES			
Tensile strength @ yield MD/TD	ASTM D – 882	MPa	14/11
Tensile strength @ Break MD/TD	ASTM D – 882	MPa	22/21
Elongation @ Break MD/TD	ASTM D – 882	%	470/570
Impact Strength, F50	ASTM – 1709	G	110
Coefficient of Friction	ASTM D – 1894	-	0.10
Haze	ASTM D – 1003	%	6.5
Gloss (@ 45 ')	ASTM D – 2457	GU	75
Clarity	ASTM D – 1746	%	85

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 on our part.

PROCESSING:

Lotrene® FD 0274 can be easily processed on all types of extruders to make blown or cast films.

The melt temperature is suggested to be in the range of 140 – 150 – 'C.

The best properties of the blown film are achieved at blow up ratios between 2 . 5 : 1 and 3 . 5 : 1.

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

The recommended thickness range is from 25 µm 100 µm.

APPLICATIONS:

- . Thin transparent film
- . Food packaging
- . High clarity film
- . Lamination film

SAFETY AND STORAGE:

Under normal conditions Loyrene® FD 0274 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.

Lotrene® FD 0274 complies with food grade regulations FDA, 21 FR chapter 177 – 1520 Olefin polymers. Items made from this grade do not transmit tests Nor odor to the material in contact with.

Lotrene® FD 0274 is inflammable and combustible (Category 3) according to ISO R 1210.

Lotrene® FD 0274 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 – foot sea containers.

Lotrene® FD 0274 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.