

Producer: QATAR PETROCHEMICAL COMPANY / QATAR

LDPE FD474

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® F 0474 can be easily processed on all types of extruders designed for polyethylene.

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

The best and balanced properties of the blown film are achieved at blow up ratios Between 2.5:1 and 3.5

To avoid blocking and shrinkage on the reel, the 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 15 µm 100 µm.

APPLICATIONS:

- . High – clarity film for packaging
- . Luxury goods
- . Flowers
- . Clothing
- . Frozen food
- . Laundry film
- . Display film

SAFETY AND STORAGE:

Under normal conditions lotrene® F 0474 does not present toxic hazard through skin contact or inhalation. During processing, contact with molten polymer and inhalation of volatilized fumes should be avoided.

lotrene® F 0474 complies with food grade regulations FDA, 21 FR chapter 177 – 1520 Olefin polymers. Items made from this grade do not transmit taste Nor odor to the material in contact with.

lotrene® F 0474 is inflammable and combustible (category 3) according to ISO R 1210.

Lotrene® F 0474 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® F 0474 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.

DESCRIPTION

lotrene® F 0474 is mainly recommended for the extrusion of very high clarity blown and cast films. It contains high slip and anti block additives.

PROPERTIES

The molecular structure of lotrene® F 0474 provides excellent clarity, high gloss and low haze films. This structure also leads to excellent processability.

PROPERTY	TEST	UNIT	VALUE
POLYMER PROPERTIES			
Melt flow index	ASTM D – 1238	g/10min.	4.0
Density @ 23 'C	ASTM D – 1505	g/cm ³	0.923
Crystalline melting point	ASTM E – 794	'C	112
Vicat softening point	ASTM D – 1525	'C	93
FILM PROPERTIES			
Tensile strength @ yield MD/TD	ASTM D – 882	MPa	15/11
Tensile strength @ Break MD/TD	ASTM D – 882	MPa	18/15
Elongation @ Break MD/TD	ASTM D – 882	%	400/500
Impact strength, F 50	ASTM D – 1709	G	100
Coefficient of Friction	ASTM D – 1894	–	0.12
Haze	ASTM D – 1003	%	6.5
Gloss (@ 45 ')	ASTM D – 2457	GU	75
Clarity	ASTM D – 1746	%	85