AMIR KABIR PETROCHEMICAL COMPANY

HDPE EX5 (GM 9450 F)

High Density Polyethylene

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

HDPE

1 Product Description:

"EX5 (GM 9450 F)" is a high Density polyethylene with Butene-1 as comonomer. It is a high molar mass for blown film with in comparison to EX4 lower stiffness and increased tenacity .The product has good toughness,low gel level and good tear strength.
Stabilization: Ca-Stearate, Zn-Stearate, Irgafos168

2 Applications:

- Food Grade.
- Blown films with paper like quality.
- Suitable for counter bags.
- Carrier bags.
- Wrapping films and sheets.
- Blending partner.

No.	Property	Units	Test Method	value
1	MFR(190 °C/5Kg)	g/10min	ISO 1133	0.28± 0.07
2	MFR(190 °C/21.6Kg)	g/10min	ISO 1133	8.0± 2.0
3	FRR5/21.6	----	----	30± 4
4	Density	g/cm³	ISO 1183	0.949 ± 0.002

Typical properties:
these are not to be construed as specifications.

AKPC

HM9450F (EX5)

PRODUCT DATA SHEET

HM-9450F (EX5) is blown film grade resin which is manufactured by suspension polymerization of etlene monomer. HM-9450F (EX5) is a bi-modal high density polyethylene with 1-Butene as comonomer.

HDPE: HM9450F (EX5)

Characteristic Properties

- High molar mass film grade
- Good stiffness and tenacity

Density: 0.947-0.951 g/cm^3

Main Applications

- For blown films with paperlike quality, suitable for counter bags, carrier bags and wrapping films
- Excellent processing.

MFR: 190/5: 0.23-0.33

Additives

- Antioxidant/Process stabilizer
- Lubricant (processing aid)/ acid scavenger

Material properties (This data are typical values and are not to be construed as product specifications.)

Test/Composition	*Typical Value*	*Unit*	*ASTM Method*
Density	0.949	g/cm^3	ISO1183
Fish Eye Note	<3	note	Internal
FRR 21.6/5	29	h	
MFR 190°/21.6	8.0	g/10 min	ISO1133
MFR190°/5	0.28	g/10 min	ISO1133

- *Test specimen from compression moulded sheet at 23°C.*
- *FRR values are statistical and calculated by dividing MFR values.*
- *Notch Impact Test specimen from compressed moulded sheet 23°C and The data quoted are average values*

HD-EX 5
License Grade Code HM 9450 F

Product Description:

"EX 5" is a high density polyethylene with 1-Butene as co monomer. It is good toughness, low gel level, good toor strenght, good stiffness and tenacity, High molar mass.

Applications:

- Film extrusion
- Counter bag, carrier bag
- Wrapping films & sheets

Typical data

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Mass density (23 C)	ISO 1183	g/cm3	0.949
Melt Flow Rate (190 C/5.0kg)	ISO 1133	g/10min	0.28
Melt Flow Rate (190 C/21.16kg)	ISO 1133	g/10min	8
FRR(21.6/5)		-	29
FN	MPC-TEST	-	≤3/≤120

- Typical Values: not to be construed as specifications
- Blow f lm thickness 20μm , Extruded at melt temp. of 200 c and Blow up Ratio 4:1
- Recommended melt temp: 200~230 c
- Recommended film thickness: 10~200 μm

KERMANSHAH POLYMER COMPANY

Plant : **KERMAPOL**

Grade/Product Name : **EX5/HM9450F**

Catalyst : **THT**

Technical Data

Product Description

HM9450F is a high-density Polyethylene with 1-Butene as a co-monomer.

Application:

For blown films with paperlike quality, suitable for counter bagscarrier bags and wrapping films , excellent processing

General

Additive	• Antioxidant, Lubricant
Features	• High molar mass film grade • Good stiffness • Good tenacity
Forms	• Pellet
Processing Method	• Film

Physical

	Nominal Value Unit	Test Method
Density[1]	0.949±0.002 g/cm³	ISO1183
Melt Mass-Flow Rate (MFR) (190°C/5 kg)	0.28±0.05 g/10 min	ISO1133
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	8±2 g/10 min	ISO1133
Flow Rate Ratio (21.6 kg/5 kg)[2]	29±4	-

Impact

	Nominal Value Unit	Test Method
Fish Eye Note	≤3	-

1) Test specimen from compression moulded sheet at 23 °C, samples not annealed

2) FRR values are statistical and calculated by dividing MFR values