

# HM9450F (EX5)

High Density Polyethylene for Films

## General Description

HM9450F (EX5) is a high density polyethylene with 1-butene as comonomer. It has good stiffness and tenacity and high molar mass.

## Typical Applications

- Blown film
- Carrier bag
- Wrapping film

Catalyst: THT/BM

## Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Density	0.949±0.02	g/cm <sup>3</sup>	ISO 1183
Fish eye note	≤ 3	note	Internal
FRR 21.6/5	29±4		
MFR190°/2.16	8±2	g/10 min	ISO 1133
MFR190°/5	0.28±0.05	g/10 min	ISO 1133
Stress at yield	24	MPa	ISO 527
Stress at break	35	MPa	ISO 527
Softening temperature	75	°C	ISO 306
Brittle temperature	< -80	°C	ASTM D746-72
Shore D hardness	60	-	ISO 868
Max. tensile strength MD/TD	45/40	MPa	ISO 527
Tear strength MD/TD	200/450	mN	ISO 6383-2
Max. elongation MD/TD	400/450	%	ISO 527
Dart drop impact	220	g	ASTM D 1709

\* Typical values; not to be considered as product specification.

### Note:

Test specimens were taken from compression moulded sheet at 23°C.

FRR values are statistical and calculated by dividing MFR values.

Notch impact test specimen was taken from compressed moulded sheet at 23°C and the data quoted here are average values.

### Processing conditions:

Recommended melt temperature is 200 - 230 °C.

Recommended film thickness is 10 - 200 µm.