

HM9455F1 (EX4HS)

High Density Polyethylene for Films

General Description

HM9455F1 (EX4HS) is a high density polyethylene with 1-butene as comonomer. It has high rigidity, low gel level, very high stiffness and good tenacity.

Typical Applications

- Film extrusion
- Blending partner
- Carrier bag
- Refuse bag

Catalyst: THT/BM

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Density	0.957±0.002	g/cm ³	ISO 1183
Fish eye note	d 3	note	Internal
FRR 21.6/5	34±4		
MFR190°/2.16	7.5±2	g/10 min	ISO 1133
MFR190°/5	0.22±0.05	g/10 min	ISO 1133
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	200/400	mN	ISO 6383-2
Max. elongation MD/TD	400/450	%	ISO 527
Dart drop Impact	210	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.

Blown film thickness was 20 µm, extruded at melt temperature of 200 °C and a blow up ratio of 4:1.

Processing conditions:

Recommended melt temperature is 200 - 230 °C.

Recommended film thickness is 10 - 200 µm.