

HM9455HT (EX6HT)

High Density Polyethylene for Films

General Description

HM9455HT (EX6HT) is a high density polyethylene with 1-butene as comonomer. It has good toughness, low gel level, good tear strength and high tenacity.

Typical Applications

- Film extrusion
- Blending partner
- Carrier bag
- Heavy duty packing

Catalyst: THT/BM

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Density	0.944±0.002	g/cm ³	ISO 1183
Fish eye note	≤ 3	note	Internal
FRR 21.6/5	30±4		
MFR190°/2.16	5.4±1.8	g/10 min	ISO 1133
MFR190°/5	0.18±0.03	g/10 min	ISO 1133
Stress at yield	21	MPa	ISO 527
Stress at break	36	MPa	ISO 527
Softening temperature	73	°C	ISO 306
Brittle temperature	< -80	°C	ASTM D746-72
Shore D hardness	58	-	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	450/500	%	ISO 527
Dart drop impact	240	g	ASTM D 1709

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

Note:

FRR values are statistical and calculated by dividing MFR 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.

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