

HD-EX 5 HS License Grade Code HM 9450 F1

Product Description:

"EX5 HS" is a high density polyethylene with 1-Butene as co monomer. It is high toughness, low gel level, good tear strength, high molar mass, very high stiffness and good tenacity.

Applications:

- Film extrusion
- O Blending partner
- (refuse) bags, carrier bags,
- Wrapping film & sheets



Typical data

Mass density (23 C) ISO 1183 g/cm3 0.950 Melt Flow Rate (190 C/5.0kg) ISO 1133 g/10min 0.22 Melt Flow Rate (190 C/21.16 kg) ISO 1133 g/10min 7.5 FRR(21.6/5) - 34 FN MPC-TEST - ≤4/≤120 Stress at Yield ISO 527 Mpa 24 Max. Tensile ISO 527 Mpa 45/40 Strength MD / TD ISO 527 Mpa 35 Tear Strength MD / TD ISO 6383-2 m N 200/450 Max. Elongation MD / TD ISO 527 % 400/450 Softening Temperature ISO 306 C 75 Brittle Temperature ASTM D746-72 C <-80 shore D hardness ISO 868 60	PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Melt Flow Rate (190 C/21.16 kg) ISO 1133 g/10min 7.5 FRR(21.6/5) - 34 FN MPC-TEST - ≤4/≤120 Stress at Yield ISO 527 Mpa 24 Max. Tensile ISO 527 Mpa 45/40 Strength MD / TD Stress at Break ISO 527 Mpa 35 Tear Strength MD / TD ISO 6383-2 m N 200/450 Max. Elongation MD / TD ISO 527 % 400/450 Softening Temperature ISO 306 C 75 Brittle Temperature ASTM D746-72 C <-80	Mass density (23 C)	ISO 1183	g/cm3	0.950
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Max. Tensile ISO 527 Mpa 45/40 Strength MD / TD Stress at Break ISO 527 Mpa 35 Tear Strength MD / TD ISO 6383-2 m N 200/450 Max. Elongation MD / TD ISO 527 % 400/450 Softening Temperature ISO 306 C 75 Brittle Temperature ASTM D746-72 C <-80	FN	MPC-TEST	-	<u>≤</u> 4/ <u>≤</u> 120
Strength MD / TD Stress at Break ISO 527 Mpa 35 Tear Strength MD / TD ISO 6383-2 m N 200/450 Max. Elongation MD / TD ISO 527 % 400/450 Softening Temperature ISO 306 C 75 Brittle Temperature ASTM D746-72 C <-80	Stress at Yield	ISO 527	Мра	24
Tear Strength MD / TD ISO 6383-2 m N 200/450 Max. Elongation MD / TD ISO 527 % 400/450 Softening Temperature ISO 306 C 75 Brittle Temperature ASTM D746-72 C <-80	max. renene	ISO 527	Мра	45/40
Max. Elongation MD / TD ISO 527 % 400/450 Softening Temperature ISO 306 C 75 Brittle Temperature ASTM D746-72 C <-80	Stress at Break	ISO 527	Мра	35
Softening Temperature ISO 306 C 75 Brittle Temperature ASTM D746-72 C <-80	Tear Strength MD / TD	ISO 6383-2	m N	200/450
Brittle Temperature ASTM D746-72 C <-80	Max. Elongation MD / TD	ISO 527	%	400/450
	Softening Temperature	ISO 306	С	75
shore D hardness ISO 868 60	Brittle Temperature	ASTM D746-72	С	<-80
	shore D hardness	ISO 868		60
Dart Drop Impact ASTM D 1709 g 240	Dart Drop Impact	ASTM D 1709	g	240

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