



NAME: HD - EX5 License Grade Code HM 9450 F

Product Description:

“EX5 (HM 9450 F)” is a high Density polyethylene with Butene-1 as co-monomer. 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

Applications:

Blown films with paper like quality.

Suitable for counter bags.

Carrier bags.

Wrapping films and sheets.

Blending partner

Typical data: (Table)

Property	Unit	Typical Value	Test Method
Physical			
(MFR) (190 °C/2.16Kg)	g/10min		ISO 1133
(MFR) (190 °C/5Kg)	g/10min	0.28	ISO 1133
(MFR) (190 °C/21.6Kg)	g/10min	8	ISO 1133
Density	g/cm ³	0.949	ISO 1183
Film Properties			
Impact Strength	g ^r	220	ASTM D 1709
Tear Strength TD	mN	450	ISO 6383-2
Tear Strength MD	mN	200	ISO 6383-2
Yield Stress TD	Mpa	20	ISO 527
Yield Stress MD	Mpa	18	ISO 527
Tensile Strength TD	MPa	40	ISO 527
Tensile Strength MD	MPa	45	ISO 527
Elongation at break TD	%	450	ISO 527
Elongation at break MD	%	400	ISO 527
Modulus of elasticity TD	Mpa	500	ISO 527
Modulus of elasticity MD	Mpa	400	ISO 527
Secant Modulus	Mpa		ISO 527
Hardness Shore D	---	60	ISO 868
Gel size	pm	<120	Internal Method
Gel Number	-	<3	Internal Method
Thermal Properties			

Vicat Softening Temperature	°C	75	ISO 306
Melting Point	°C	136	ISO 3146

Processing Condition:

Recommended melt temperature: 200-230 °C

Film Blowing Machine: Dr.Collin 30M (Extruder) + 180/400(Unit)

Barrel Temperature (°C): 170,240,240

Flange Temperature (°C): 240

Blown Film Line Temperature (°C): 240,240

Screw Speed is set to 60 rpm

Blow up Ratio of 4:1

Recommended Film thickness: 20-200 µm Die Diameter: 50mm Die Gap: 0.5mm