High Density Polyethylene GM9450F

Description:

HDPE GM9450F is a high-density polyethylene, developed for the high molecular weight film extrusion segment produced with bimodal technology. The film produced from this resin has high tenacity and excellent resistance to impact characteristics. This resin has wide molar mass distribution that makes it easier to process.

Applications:

Bags in general (such as T-shirt bags, hancle bags, star bags, others); geomembranes.

Additives:

Process:

Blown Film Extrusion.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/5)	D 1238	g/10 min	0.33
Melt Flow Rate (190/21,6)	D 1238	g/10 min	9.3
Density	D 792	g/cm3	0.952

Typical Properties:

Blown film Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	85/45
Elongation at Break (MD/TD)	D 882	%	590/740
Tensile Strength at Yield (MD/TD)	D 882	MPa	40/30
Elongation at Yield (MD/TD)	D 882	%	15/5
Dart Drop Impact Resistance	D 1709	g/F50	200
Elmendorf Tear Strength (MD/TD)	D 1922	gF	5/50
Secant Modulus 1% (MD/TD)	D 882	MPa	750/870
Sealing Initial Temperature	Braskem Method	°C	125

(a) Film with 12,5 micra produce in a 75mm extruder with 1,3 mm of die gap and a blow-up ratio of 4.5:1. (MD = extrusion direction and TD = transversal direction).



