

High Density Polyethylene BF4810

Description:

BF4810 is a high density high molecular weight polyethylene copolymer resin that shows an excellent dart impact and puncture resistance, high tensile strength, good sealability and an outstanding processing performance.

Applications:

Retail bags; perforated rolls; repackaging; bags in general.

Process:

Blown Film Extrusion.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/5)	D 1238	g/10 min	0.45
Melt Flow Rate (190/21.6)	D 1238	g/10 min	10
Density	D 792	g/cm3	0.948

Typical Properties:

Blown Film Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	50/40
Elongation at Break (MD/TD)	D 882	%	510/860
Tensile Strength at Yield (MD/TD)	D 882	MPa	25/25
Dart Drop Impact	D 1709	g/F50	135
Elmendorf Tear Strength (MD/TD)	D 1922	gF	50/70
Puncture Strength	Braskem Method	J/m	70
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)..

