

Low Density Polyethylene BF0323/12HC

Description:

BF0323/12 is a high molecular weight LDPE produced under high pressure technology. Films obtained with this product show outstanding optical properties, excellent mechanical properties, and good shrinkage.

Additive:

Slip Medium

Antiblock Medium

Applications:

Automatic packaging of solid and liquid products; shrink films for pallets

Process:

Blown Film Extrusion

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	0.32
Density	D 792	g/cm ³	0.923

Typical Properties:

Blown Film Properties^a

	ASTM Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	20/20
Elongation at Break (MD/TD)	D 882	%	390/930
Dart Drop Impact	D 1709	g/F50	290
Elmendorf Tear Strength (MD/TD)	D 1922	gF	ND ^b /270
Haze	D 1003	%	12
Gloss - Angle 60°	D 2457	%	80

(a) 70 µm thickness film, processed in a 75 mm screw diameter extruder with blow up ratio of 2:1, die gap 1.0 mm, (MD = Machine Direction; TD = Transversal Direction);

(b) ND: Not Determined.

Recommended Processing Conditions:

Blown Film Extrusion

- Extruder:

Screw- relation L/D.....16 to 30:1

Compression Ratio.....3 to 4:1

- Screw Package (Mesh)...40/60/40

- Temperature Profile:

1^azone.....110°C

Extruder.....180°C

Die.....190°C

-Blow up ratio.....from 2 to 3:1

-Frostline Height.....maximum equivalent to bubble diameter

