

High Density Polyethylene HD3000N

Description:

HD3000N is a High Density Polyethylene, ideal for cast film extrusion. It offers high processability, stiffness and good impact resistance.

Applications:

Cast film extrusion for diapers; hygienic absorbers and other specialties.

Additives:

It contains fenol free antioxidant additive.

Process:

Cast film extrusion.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	7.3
Density	D 792	g/cm ³	0.960

Typical Properties:

Blown film Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	25/20
Elongation at Break (MD/TD)	D 882	%	770/380
Flexural Modulus – 1% Secant (MD/TD)	D 882	MPa	710/790
Dart Drop Impact	D 1709	g/F50	ND
Elmendorf Tear Strength (MD/TD)	D 1922	gF	5/10
Haze	D 1003	%	47
Gloss - Angle 60°	D 2457	%	52

(a) 25 µm Film Gauge, obtained in 40 mm extruder with blow up ratio of 2,2:1 . (MD: Machine direction; TD: Transversal direction).

Recommended Processing Conditions:

The HD3000N is indicated for the processing in plain die extruding machine in conditions that are similar to the other types of High-Density Polyethylene, of equivalent melt index and density. Recommended temperature range: 250 to 290 °C.

