

High Density Polyethylene FH35

Description:

FH35 resin is a High Density Polyethylene that is designed for flat die film extrusion and shows good mechanical properties.

Applications:

Diapers, sanitary napkins and other specialties.

Process:

Cast Film Extrusion

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	4.9
Density	D 792	g/cm ³	0.942

Typical Properties:

Blown Film Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	30/20
Elongation at Break (MD/TD)	D 882	%	1350/430
Flexural Modulus – 1% Secant (MD/TD)	D 882	MPa	490/540
Dart Drop Impact	D 1709	g/F50	ND
Elmendorf Tear Strength (MD/TD)	D 1922	gF	13/20

(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 FH35 resin is indicated to be in cast die film extruders under processing conditions comparable to the other Linear Medium Density Polyethylenes of similar fluidity and density.

The recommended temperature profile:

- Extrusion: 180 to 250°C.
- Die Head and Die: 250 to 290°C.

