

Technical Data Sheet

IPETHENE® 100

Low Density Polyethylene

Description

IPETHENE® 100 is a low density polyethylene extrusion grade, produced by high pressure autoclave technology. It exhibits very good mechanical strength, good processability and good bubble stability in thick blown film production.

Additives

This grade does not contain additives.

Applications

IPETHENE® 100 is suitable for heavy duty bags, shrink hoods, liners, construction and agriculture films. Additional extrusion applications are pipes, tubes, bottles and containers.

Quality, Environmental and Safety Regulations

Material Safety Data Sheets and other regulatory documents are available on our web site <http://www.caol.co.il>

Resin Properties		Method	Typical Value*	Unit
Physical				
Melt Flow Rate	(190°C/2.16 kg)	ISO 1133	0.3	g/10 min
Density		ISO 1183-A	0.920	g/cm ³
Thermal				
Peak Melting Temperature	By DSC	ISO 11357-3	109	°C
Vicat Softening Temperature		ISO 306	96	°C
Film Properties**				
Dart Drop Impact	(F ₅₀)	ISO 7765-A	470	g
Tensile Stress at Break	(MD/TD)	ISO 527-3	22/22	MPa
Tensile Strain at Break	(MD/TD)	ISO 527-3	650/650	%
Elmendorf Tear Strength	(MD/TD)	ISO 6383-2	300/500	g

*Typical values, not to be construed as specifications.

**Measured on 100 µm blown film, Blow-up ratio 2.5:1, output 10 kg/h, melt temperature ~210°C.

Processing Recommendations

IPETHENE® 100 can be easily processed on conventional extruders at melt temperature range 180-220°C. Due to differences in screw and die head designs, processing conditions should be optimized for each production line. With suitable equipment it can be drawn down to 60 µm films.

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