

Ipethene® 100

Low Density Polyethylene

Carmel Olefins Ltd.

Message:

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.

General Information			
Features	Low density		
	Workability, good		
	Medium strength		
Uses	Films		
	Lining		
	Piping system		
	Pipe fittings		
	Architectural application field		
	Agricultural application		
	Bottle		
	Container		
	Shrinkable film		
	Heavy packing bag		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Film extrusion		
	Blow film		
	Pipeline extrusion molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
MD: Broken, 100 µm, blown film	22.0	MPa	ISO 527-3
TD: Broken, 100 µm, blown film	22.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 100 µm, blown film	650	%	ISO 527-3
TD: Broken, 100 µm, blown film	650	%	ISO 527-3

Dart Drop Impact ¹ (100 µm, Blown Film)	470	g	ISO 7765-1/A
Elmendorf Tear Strength			ISO 6383-2
MD: 100 µm, blown film	0.031	N	ISO 6383-2
TD: 100 µm, blown film	0.051	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.0	°C	ISO 306
Melting Temperature ²	109	°C	ISO 11357-3
Additional Information			
Film properties: Measured on 100 µm blown film, Blow-up ratio 2.5:1, output 10 kg/h, melt temperature ~210 °C.			
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 220	°C	
NOTE			
1.	F50		
2.	By DSC		

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