

Ipethene® 111

Low Density Polyethylene

Carmel Olefins Ltd.

Message:

IPETHENE® 111 is a low density polyethylene extrusion grade, produced by high pressure autoclave technology. It is easily processed with a good balanced between mechanical and optical properties.

General Information			
Features	Low density Optical Workability, good		
Uses	Films Lining Bags Agricultural application Shrinkable film Small Bag-Flexible Package		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Film extrusion Blow film 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)	0.70	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
MD: Broken, 50 µm, blown film	27.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	25.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	450	%	ISO 527-3
TD: Broken, 50 µm, blown film	700	%	ISO 527-3
Dart Drop Impact ¹ (50 µm, Blown Film)	280	g	ISO 7765-1/A
Elmendorf Tear Strength			ISO 6383-2
MD: 50 µm, blown film	0.036	N	ISO 6383-2
TD: 50 µm, blown film	0.025	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	95.0	°C	ISO 306
Melting Temperature ²	109	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	60		ASTM D2457
Haze (50.0 µm, Blown Film)	8.0	%	ASTM D1003
Additional Information			
Film properties: Measured on 50 µm blown film, Blow-up ratio 2.5:1, output 10 kg/h, melt temperature ~180 °C.			
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 180	°C	
NOTE			
1.	F50		
2.	By DSC		

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