

# Ipethene® 320

Low Density Polyethylene

Carmel Olefins Ltd.

## Message:

IPETHENE® 320 is a low density polyethylene extrusion grade, produced by high pressure autoclave technology. This grade is particularly suitable for the production of blown & cast transparent thin films. It has excellent draw-down, good optical and processing properties.

General Information			
Features	Low density		
	Optical		
	Workability, good		
	Good stripping		
Uses	Packaging		
	Films		
	Lining		
	Blow molding applications		
	Bags		
	cast film		
	Masterbatch		
	Shrinkable film		
Agency Ratings	EC 1907/2006 (REACH)		
	Particle		
Processing Method	Film extrusion		
	Blow film		
	Extrusion		
	cast film		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
MD: Broken, 50 µm, blown film	24.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	21.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	500	%	ISO 527-3

TD: Broken, 50 µm, blown film	750	%	ISO 527-3
Dart Drop Impact <sup>1</sup> (50 µm, Blown Film)	170	g	ISO 7765-1/A
Elmendorf Tear Strength			ISO 6383-2
MD: 50 µm, blown film	0.046	N	ISO 6383-2
TD: 50 µm, blown film	0.025	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	93.0	°C	ISO 306
Melting Temperature <sup>2</sup>	109	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	71		ASTM D2457
Haze (50.0 µm, Blown Film)	5.5	%	ASTM D1003
Additional Information			
Film properties: Measured on 50 µm blown film, Blow-up ratio 2.5:1, output 10 kg/h, melt temperature ~170 °C.			
Extrusion	Nominal Value	Unit	
Melt Temperature	155 - 180	°C	
NOTE			
1.	F50		
2.	By DSC		

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