

Ipethene® 210

Low Density Polyethylene

Carmel Olefins Ltd.

Message:

IPETHENE® 210 is a low density polyethylene extrusion grade, produced by high pressure autoclave technology. It is designed for thin film applications with good optical and processing properties.

General Information			
Features	Low density Optical Workability, good		
Uses	Packaging Films Lining Bags Shrinkable film Small Bag-Flexible Package		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Film extrusion 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)	1.0	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	24.0	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)	200	g	ISO 7765-1/A
Elmendorf Tear Strength			ISO 6383-2
MD: 50 µm, blown film	0.041	N	ISO 6383-2
TD: 50 µm, blown film	0.025	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	94.0	°C	ISO 306

Melting Temperature ²	109	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	66		ASTM D2457
Haze (50.0 µm, Blown Film)	7.0	%	ASTM D1003
Additional Information			
Film properties: Measured on 50 µm blown film, Blow-up ratio 2.5:1, output 10 kg/h, and Melt temperature ~170 °C.			
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 180	°C	
NOTE			
1.	F50		
2.	By DSC		

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