

Ipethene® 4203

Low Density Polyethylene

Carmel Olefins Ltd.

Message:

IPETHENE® 4203 is a low density polyethylene extrusion grade, produced by high pressure autoclave technology. It exhibits high mechanical strength, good Environmental Stress Cracking Resistance (ESCR) and very good bubble stability even in large diameter blown film processing.

General Information			
Features	Low density		
	High ESCR (Stress Cracking Resistance)		
	Good 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)	0.20	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
MD: Broken, 100 µm, blown film	23.0	MPa	ISO 527-3
TD: Broken, 100 µm, blown film	26.0	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	700	%	ISO 527-3

Dart Drop Impact ¹ (100 µm, Blown Film)	500	g	ISO 7765-1/A
Elmendorf Tear Strength			ISO 6383-2
MD: 100 µm, blown film	0.025	N	ISO 6383-2
TD: 100 µm, blown film	0.046	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	98.0	°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 - 230	°C	
NOTE			
1.	F50		
2.	By DSC		

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