Ipethene® 213

Low Density Polyethylene

Carmel Olefins Ltd.

Message:

IPETHENE® 213 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	
Additive	heat stabilizer
	Moderate caking resistance
	Moderate smoothness
Features	Low density
	Optical
	Workability, good
	Thermal Stability
	BHT-free
	Moderate caking resistance
	Moderate smoothness
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/cm³	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)	61		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, and Melt temperature ~170 °C.			
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	160 - 175	°C	
NOTE			
1.	F50		
2.	By DSC		

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