Ipethene® 323

Low Density Polyethylene

Carmel Olefins Ltd.

Message:

IPETHENE® 323 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	
Additive	High smoothness High caking resistance heat stabilizer
Features	Low density High smoothness High caking resistance Thermal Stability BHT-free
Uses	Packaging Films Lining Bags Shrinkable film Small Bag-Flexible Package
Agency Ratings	EC 1907/2006 (REACH)
Forms	Particle
Processing Method	Film extrusion Blow film Extrusion cast film

Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm³	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 [1] (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 [2]	109	°C	ISO 11357-3
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 50.0 µm, Blown Film)	65		ASTM D2457
Haze (50.0 µm, Blown Film)	7.0	%	ASTM D1003
Additional Information			
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 - 175	°C	
NOTE			
1.	F50		
2.	By DSC		

Recommended distributors for this material

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