

IPETHENE[®] 323**POLYETHYLENE-LOW DENSITY****Description**

Ipethene[®] 323 is a general purpose Polyethylene-Low Density film extrusion grade, containing: High Slip and Anti-Block additive levels.

Designation: Thermoplastics ISO 1872-PE, FBN, 18-D022

Its main features are:

- * Good balance between mechanical and optical properties
- * Good processability especially for thin-gauge films
- * Very versatile film material

General properties

As measured on pellets and plaques compression moulded according to ISO 293.

	Unit	Test Method	Value
M.F.I. (190;2.16)	g/10 min	ISO 1133	2.0
Density	g/cm ³	ISO 1183-C	0.9200
Bulk Density	g/cm ³	ISO 60	0.55
Tensile Yield Stress	MPa	ISO / R 527 (Type 2)	10.5
Tensile Strain at Break	%	ISO / R 527 (Type 2)	600
Tensile Stress at Break	MPa	ISO / R 527 (Type 2)	12.5
Vicat Softening Temperature	°C	ISO 306-A50	92

Applications

This grade is mainly used to produce 25 to 80 micron films, for:

- * General purpose film packaging
- * Form-Fill-Seal packaging
- * Thin-gauge films and bags

Film properties

As measured on a 50micron thick film, produced on an industrial 55mm L/D=30 blown-film extrusion line, die diameter 250mm, die gap 1.0mm, blow-up ratio 2:1, output 80kg/h, melt temperature ~160°C.

	Unit	Test Method	Value	
			MD	DT
Tensile Strength at Break	MPa	ISO 1184	22	15
Elongation at Break	%	ISO 1184	230	500
Break-energy	J	ISO 1184	2.35	3.10
Elmendorf Tear Strength	g	ISO 6383-2	600	250
Impact Resistance, free-falling Dart (F ₅₀)	g	ISO 7765-A	125	
Coefficient of Friction (dynamic)	-	ISO 8295	0.15	
Haze	%	ASTM D-1003	6	
Gloss 45°	-	ASTM D-2457	75	

MD - Machine Direction
DT - Trasversal Direction

Quality standards

Ipethene® 323 is manufactured under ISO 9002 Quality Management System.
Official certificate available upon request.

Food contact status

F.D.A Status

Complies with the requirements for contact with foodstuff, as published by the Food and Drugs Administration of the United States, in Section 177.1520.

European Union Status

Suitable for food contact applications, details available on demand.

Safety

Material Safety Data Sheet is available upon request.

The information given in this publication is true and accurate to the best of our knowledge. The numeric values presented are typical values obtained by testing laboratory samples.

Since many factors may affect processing and application, this publication is not intended as a legally binding assurance. The users should perform their own tests in order to ascertain the suitability to a specific application. Also, it is the users' responsibility to ensure that their specific use does not constitute an infringement of any patent or law.