

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PB154 M1F

DESCRIPTION

NEW ISPLEN® PB154M1F is a medium melt flow rate heterophasic polypropylene, especially developed for films with a high impact strength even at low temperatures.

Its special structural characteristics provide it high impact strength, good processability, high tear strength and better optical properties than conventional heterophasic copolymers.

Additionally, this grade includes both antiblock and slip agents.

APPLICATIONS

Non oriented film extrusion where high impact and tear strength are essential:

- Single layer films / Core-layer in co-extruded cast films
- Packaging of foodstuffs and non-food stuffs

Its recommended melt temperature range goes from 190 to 250°C. Processing conditions may be optimised for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (190°C, 2.16 kg)	7	g/10 min	ISO 1133
Density at 23°C	905	kg/m ³	ISO 1183
Mechanical Properties (injected test sampled)			
Flexural Modulus	1100	MPa	ISO 178
Dard impact (-20°C). Test sample thickness 1 mm			
Energy	9.5	J	ISO 6603
Maximal force	1790	N	
Charpy impact strength /notched, 23°C	15	KJ/m ²	ISO 179
Thermal			
HDT (0.45 MPa)	82	°C	ISO 75
Film 50 microns			
Tensile Strength at Yield MD	17	MPa	ASTM D882
Tensile Strength at Break MD	34	Mpa	ASTM D882
Tear strength	95	cN	ISO 6383/2
Gloss, 60°	43	GU	ASTM D2457
Haze	22	%	ASTM D1003

ISPLEN® PB154M1F complies with the European Directives regarding materials intended for contact with foodstuffs. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

STORAGE

ISPLEN® PB154M1F should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60°C and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes which may have a negative influence on the processability and the properties of the transformed product.

November 2013

This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

Technical Service and Development:
Repsol Technology Centre
Ctra. de Extremadura A5, Km 18
28931 Móstoles, Madrid
Tel. +34 91 753 86 00
atd_poliiolefinas@repsol.com

Headquarters:
Méndez Álvaro, 44
28045 Madrid
Spain
www.chemicals.repsol.com

Customer Care:
sacrq@repsol.com