

# ISPLEN® PB 182 G2M

Polypropylene Impact Copolymer  
REPSOL

Message:

ISPLEN® PB 182 G2M is a high fluidity heterophasic copolymer characterised by its excellent flow properties and good balance of mechanical properties, very high impact strength and high stiffness. It is particularly intended for injection moulding applications used in the manufacture of thin wall articles. Also, the material has a very low tendency to warp and it is used in goods where dimensional stability is important.

TYPICAL APPLICATIONS

The particular characteristics of ISPLEN® PB 182 G2M make it suitable for applications in which very high impact strength at high fluidity is required as well as good procesability:

Domestic and leisure furniture.

Square boxes and round storage containers for consumer appliances.

Trays and containers for cold storage of foodstuffs: ice creams, fresh vegetables, fruit processed...

Industrial components: toys, sports, leisure, automotive, storage organizers, packaging...

Recommended melt temperature range from 190 to 250°C. Processing conditions should be optimised for each production line.

General Information			
Features	Food Contact Acceptable		
	Good Dimensional Stability		
	High Flow		
	High Stiffness		
	Low Warpage		
	Ultra High Impact Resistance		
Uses	Automotive Applications		
	Containers		
	Food Containers		
	Furniture		
	Industrial Applications		
	Packaging		
	Sporting Goods		
	Thin-walled Parts		
Toys			
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1000	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	77.0	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 250	°C	

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#### Recommended distributors for this material

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