

# ISPLEN® PB 171 H1M

Polypropylene Impact Copolymer  
REPSOL

Message:

ISPLEN® PB 171 H1M is a medium-high fluidity heterophasic copolymer with specific molecular structure intended for injection moulding applications that combines very high impact strength, even at low temperatures and excellent processability.

Other technical advantages of ISPLEN® PB 171 H1M are:

Highly suitable for manufacturing of articles with very high impact strength at low temperatures.

Low viscosity that enables to fill moulds with complex geometry, big articles or long flow paths.

Low warpage and high dimensional stability.

TYPICAL APPLICATIONS

Particular characteristics of ISPLEN® PB 171 H1M performs a grade widely used for technical components, transport systems and storage equipment: crates, suitcase shells, professional storage solutions, automotive components, battery boxes, buckets, waste and disposal management systems, industrial components (sports, leisure, electrical...)

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		
	Good Processability		
	High Flow		
	Low Temperature Impact Resistance		
	Low Viscosity		
	Low Warpage		
	Ultra High Impact Resistance		
Uses	Automotive Applications		
	Battery Cases		
	Crates		
	Industrial Applications		
	Luggage		
	Sporting Goods		
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)	11	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	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	12	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	80.0	°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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