

# ISPLEN® PB 141 U5M

Polypropylene Impact Copolymer  
REPSOL

Message:

ISPLEN® PB 141 U5M is a low-medium fluidity heterophasic copolymer with specific structural modifications Intended for injection moulding applications that combines very high impact strength, even at low temperatures, and high stiffness and good processability. It is UV stabilized to be used in exterior applications.

Among other technical advantages ISPLEN® PB 141 U5M offers:

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

Easy flow enables to fill moulds with complex geometry or big articles that is not common in a grade with this melt flow rate.

Low warpage and high dimensional stability.

TYPICAL APPLICATIONS

ISPLEN® PB 141 U5M characteristics performs a grade particularly designed for technical components and containers exposed to heavy loads: heavy duty crates, suitcase shells, professional organizers, automotive components, extra high impact battery boxes and industrial components (sports, leisure, packaging...)

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

General Information			
Additive	UV Stabilizer		
Features	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Moldability		
	Good Processability		
	High Stiffness		
	Low Temperature Impact Resistance		
	Low Warpage		
	Medium Flow		
Uses	Ultra High Impact Resistance		
	Automotive Applications		
	Battery Cases		
	Crates		
	Industrial Applications		
	Luggage		
	Outdoor Applications		
	Packaging		
Agency Ratings	Sporting Goods		
	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)	3.5	g/10 min	ISO 1133

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	82.0	°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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