

ISPLEN® PP 084 D2M

Polypropylene Homopolymer
REPSOL

Message:

ISPLEN® PP 084 D2M is a polypropylene homopolymer of high fluidity for injection moulding. It is specifically intended for applications that require end articles with very low surface friction. The grade is characterised by excellent flow properties that facilitates an easy mould filling as well as a quick release from the mould. Articles produced with this grade have good physical properties, excellent chemical resistance and easy printability.

TYPICAL APPLICATIONS

ISPLEN® PP 084 D2M has been specifically designed for the production of articles that need short cycles times, easy handling and low resistance during manipulation in automatic or robotized production lines, such us:

- Caps and closures
 - Screw caps
 - Components for spray dispensers.
 - Pistons for one use syringes, needle covers and other lab equipment (tubes, pipettes...).
 - Garden furniture.
- Recommended melt temperature range from 190 to 250°C. Processing conditions should be optimised for each production line.

General Information			
Features	Excellent Printability		
	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Chemical Resistance		
	High Flow		
	Low Friction		
Uses	Caps		
	Closures		
	Furniture		
	Labware		
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	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)	72		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method


Heat Deflection Temperature (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 250	°C	

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