

# ISPLEN® RC 590 S2M

Polypropylene

REPSOL

## Message:

ISPLEN® RC 590 S2M belongs to a new range of highly transparent family specially designed to satisfy the more exigent necessities of the market.

### PROCESSING ADVANTAGES

It allows reducing the cycle time, due to its higher crystallization temperature.

By its higher stiffness, it increases the mechanical properties of the articles manufactured. Lower tendency to warpage.

Due to the improved optical properties, it is possible to produce articles of higher thickness, maintaining a very good aesthetic result. The haze of this new product in a 2 mm plate is equivalent to the haze of a standard random copolymer in a 1mm plate.

### TYPICAL APPLICATIONS

ISPLEN® RC 590 S2M is specially indicated for applications where the optical properties are really demanding, and in addition is necessary a good processability:

Thick houseware containers (square and cylindrical shape).

Transparent boxes and crates for domestic and professional storage.

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

General Information			
Features	Fast Molding Cycle		
	High Clarity		
	High Stiffness		
	Low Warpage		
	Opticals		
Uses	Containers		
	Crates		
	Household Goods		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1150	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1000	µm	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m <sup>2</sup>	ISO 179
Optical	Nominal Value	Unit	Test Method
Haze (1000 µm)	4.0	%	Internal Method
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 250	°C	

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