Isplen® Polypropylene

Chemicals Technical data sheet

REPSOL

ISPLEN® RC580S2M

ISPLEN® RC 580 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 580 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.
- ISBM bottles for different applications
- Baby´s bottles

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

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (230 °C; 2.16 kg)	20	g/10 min	ISO 1133
Density	905	kg/m^3	ISO 1183
Mechanical			
Flexural Modulus	1150	MPa	ISO 178
Charpy Impact Strength Notched 23 °C	5	kJ/m^2	ISO 179
Optical			
Haze (1mm)	4	%	Internal method

STORAGE

ISPLEN® RC 580 S2M should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60ºC and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes which may have a negative influence on the processability and the properties of the transformed product.

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