

Technical Data Sheet

Chemicals



REPSOL ImpactO® HI2050KM

REPSOL ImpactO® HI2050KM is a medium fluidity heterophasic copolymer with an excellent impact resistance, even at low temperatures. It is nucleated and contains a special antistatic formulation which provides an outstanding demoulding performance.

Applications

REPSOL ImpactO® HI2050KM is an excellent solution for high impact applications such as:

- Pails, boxes, industrial or consumer containers for cold storage.
- Neat polypropylene for compounding.
- High Impact Injection Articles: infant safety systems, toys, sports, leisure, etc.

Recommended melt temperature range from 190 to 250°C. 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 at 23°C	905	kg/m ³	ISO 1183
MECHANICAL			
Flexural modulus of elasticity	900	MPa	ISO 178
Tensile strength at break	17	MPa	ISO 527-2
Charpy impact strength (23°C, notched)	60	kJ/m ²	ISO 179
Charpy impact strength (-20°C, notched)	8	kJ/m ²	ISO 179
Izod impact strength (23°C, notched)	45	kJ/m ²	ISO 180
Izod impact strength (-20°C, notched)	11	kJ/m ²	ISO 180
THERMAL			
HDT 0,45MPa	72	°C	ISO 75-2
HDT 1,8 MPa	48	°C	ISO 75-2

The properties mentioned herein are exclusively related to pure grade REPSOL ImpactO® HI2050KM, not in conjunction with any other additives or fillers.

Storage

REPSOL ImpactO® HI2050KM should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60°C and protected from UV radiation. Storage under inappropriate conditions could initiate

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This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

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degradation processes or undesired migration of additives included in its formulation which may have a negative influence on the processability and properties of the transformed product.

Disclaimer

This grade complies with the European regulations for materials for use in food contact. This grade is not intended to be used in medical, pharmaceutical, or healthcare applications, therefore Repsol does not authorize its use in them.

Repsol does not grant express or implicit guarantees that extend beyond the description contained herein. Nothing herein shall constitute any guarantee of merchantability or fitness for a particular purpose. Before using a product sold by Repsol, users must make their own independent determination that the product is safe, legal, and technically suitable for its intended use. Repsol does not assume any responsibility for the use of its materials together with other materials.

Related documents

The following related documents are available on request, and represent various aspects on the usability and safety of the product:

- Safety data sheet
- Statement on compliance with food contact regulations

Recommended consumption period: 12 months from the raw material reception

July 2021

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