Technical Data Sheet
Chemicals

REPSOL ISPLEN PM440AT

REPSOL ISPLEN PM440AT is a polypropylene homopolymer highly mineral filled reinforced and medium melt flow rate. It shows a high stiffness, as well as a low warpage and shrinkage behavior. The product is high heat and chemical stabilized.

Applications

- Automotive: under the bonnet parts subjected to high thermal stress (Light housings, HVAC elements), AC inserts inside the car.
- Heaters and air conditioning units.
- Electrical housings, power tools.
- Washing machine cylinders.

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

PROPERTIES	VALUE	UNIT	TEST METHOD
GENERAL			
Melt flow rate (230°C/ 2,16 kg)	3	g/10 min	ISO 1133
Density at 23ºC	1230	kg/m^3	ISO 1183
MECHANICAL			
Flexural modulus of elasticity	4100	MPa	ISO 178
Tensile Modulus of Elasticity	3450	MPa	ISO 527
Tensile strength at yield	32	MPa	ISO 527-2
Elongation at yield	3	%	ISO 527-2
Izod impact strength (23°C,notched)	2,9	kJ/m^2	ISO 180
Izod impact strength (23°C,unnotched)	17,5	kJ/m^2	ISO 180
Izod impact strength (0°C,notched)	2,8	kJ/m^2	ISO 180
Izod impact strength (0°C,unnotched)	11	kJ/m^2	ISO 180
OTHER			
Vlcat softening temperature A120 (10N)	156	ºC	ISO 306
Vlcat softening temperature A120 (50N)	108	ºC	ISO 306
HDT 0,45 MPa	124	°C	ISO 75
HDT 1,8 MPa	79	°C	ISO 75
Shrinkage, 150x100x3mm	0,5 – 0,8	%	ISO 2577
Shore Hardness D	77	-	ISO 868

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 registeres desings cannot be assumed.

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All our polyolefins are recyclable

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Storage

REPSOL ISPLEN PM440AT 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 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 does not comply with the European regulations for materials for use in contact with food, nor is it intended to be used in medical, pharmaceutical, or health applications, so 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

Recommended consumption period: 12 months from the raw material reception

July 2021

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