TECHNICAL DATA SHEET

Repsol Isplen® PM270AT

REPSOL ISPLEN PM270AT is a polypropylene homopolymer, 20% mineral fillers reinforced and high melt flow rate. It gives a high stiffness, and a low warpage and shrinkage behaviour. This product is high heat stabilized.

Applications

- Automotive: Under the bonnet parts subjected to high thermal stress (Light housings, heat and ventilation ducts).
- Heaters and air conditioning units.
- Technical pieces, in general.

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

Characteristics

PROPERTIES	VALUE	UNIT	TEST METHOD
GENERAL			
Melt flow rate (230ºC/ 2,16 kg)	12	g/10 min	ISO 1133
Density at 23ºC	1050	kg/m3	ISO 1183
MECHANICAL			
Flexural modulus of elasticity	2600	MPa	ISO 178
Tensile modulus of elasticity	2400	MPa	ISO 527
Tensile strength at break	32,1	MPa	ISO 527-2
Elongation at break	8,6	%	ISO 527-2
Tensile strength at yield	35,7	MPa	ISO 527-2
Elongation at yield	5,1	%	ISO 527-2
Charpy impact strength (23ºC, notched)	2,4	kJ/m^2	ISO 179
Charpy impact strength (23ºC, unnotched)	37,7	kJ/m^2	ISO 179
OTHER			
VIcat softening temperature A120 (10N)	153	ºC	ISO 306
VIcat softening temperature A120 (50N)	95	ºC	ISO 306
HDT 0,45 MPa	109	ºC	ISO 75
HDT 1,8 MPa	66	ºC	ISO 75
Shrinkage, (SMp/SMn)	0,93 - 0,97	%	ISO 294-4
Shore Hardness D	73	-	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 registered designs cannot be assumed.

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Storage

REPSOL ISPLEN PM270AT 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 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

Recommended consumption period: 12 months from the raw material reception

December 2025

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