

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PM440AT

Polypropylene homopolymer, 40% mineral fillers reinforced and medium melt flow rate.

ISPLEN® PM440AT shows a high stiffness, as well as a low warpage and shrinkage behaviour. The product is high heat and chemical stabilised.

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.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
MFI (230°C, 2.16Kg)	3	g/10min	ISO 1133
Density at 23°C	1,23	g/cm ³	ISO 1183
Mechanical			
Flexural Modulus of Elasticity	4550	MPa	ISO 178
Tensile Modulus of Elasticity	4300	MPa	ISO 527-2
Tensile Strength at Yield	32	MPa	ISO 527-2
Elongation at Yield	3	%	ISO 527-2
Izod Impact Strength	23 °C notched / unnotched	2,9 / 17,5	KJ/m ²
	0 °C notched / unnotched	2,8 / 11	KJ/m ²
Thermal			
Vicat (10N, 120°/h)	156	°C	ISO 306
Vicat (50N, 120°/h)	107	°C	ISO 306
HDT (0,45 MPa)	124	°C	ISO 75
HDT (1,8 MPa)	79	°C	ISO 75
Others			
Shrinkage, 150x100x3mm	0,6 – 0,8	%	ISO 2577
Shore D Hardness, 15s	77	°Shore	ISO 868

STORAGE

ISPLEN® PM440AT should be stored in dry atmosphere paved, drained and not flooded area at temperatures under 60 °C and protected from UV radiation. Storage under improper conditions could trigger off degradation processes, negatively influencing processability and properties of the transformed product.

December 2013

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.

Technical Service and Development:
Repsol Technology Centre
Ctra. de Extremadura A5, Km 18
28931 Móstoles, Madrid
Tel. +34 91 753 86 00
atd_poliiolefinas@repsol.com

Headquarters:
Méndez Álvaro, 44
28045 Madrid
Spain
www.chemicals.repsol.com

Customer Care:
sacrq@repsol.com