

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PM490AT

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

ISPLEN® PM490AT shows a high stiffness, as well as a low warpage and shrinkage behaviour. The product is high heat stabilised.

APPLICATIONS

- Automotive: under the bonnet parts subjected to high thermal stress (Light housings, HVAC elements). AC inserts inside the car.
- Electrical housings, washing machine cylinders, power tools, technical pieces.
- Technical pieces, in general.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
MFI (230°C, 2.16Kg)	30	g/10min	ISO 1133
Density at 23°C	1.23	g/cm ³	ISO 1183
Mechanical			
Flexural Modulus of Elasticity	4,800	MPa	ISO 178
Tensile Strength at Yield	30	MPa	ISO 527-2
Elongation at Yield	2	%	ISO 527-2
Izod Impact Strength	23 °C notched / unnotched	2.5 / 12	KJ/m ²
	0 °C notched / unnotched	2.2 / 10	KJ/m ²
	-20°C notched / unnotched	1.8 / 7	KJ/m ²
Thermal			
Vicat (10N, 120°/h)	152	°C	ISO 306
Vicat (50N, 120°/h)	87	°C	ISO 306
HDT (0.45 MPa)	113	°C	ISO 75
HDT (1.8 MPa)	68	°C	ISO 75
Others			
Shrinkage, 150x100x3mm	0.6 – 1.0	%	ISO 2577

STORAGE

ISPLEN® PM490AT 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 degradation processes which may have a negative influence on the processability and the 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.

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