

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PM470 XT

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

ISPLEN® PM470 XT shows a high stiffness, as well as a low warpage and shrinkage behaviour. The product is high heat and chemical stabilised.

APPLICATIONS

- Automotion: technical pieces with special geometry.
- Air conditioning housing.
- Electrical housings, power tools.

PROPERTIES		VALUE	UNIT	TEST METHOD
General				
MFI (230°C, 2.16Kg)		12	g/10min	ISO 1133
Density		1,23	g/cm ³	ISO 1183
Mechanical				
Flexural Modulus of Elasticity		2600	MPa	ISO 178
Tensile Modulus of Elasticity		2400	MPa	ISO 527-2
Tensile Strength at Break		17	MPa	ISO 527-2
Elongation at Break		37	%	ISO 527-2
Tensile Strength at Yield		22	MPa	ISO 527-2
Elongation at Yield		2,5	%	ISO 527-2
Charpy Impact Strength	23 °C notched / unnotched	1,6 / 38	KJ/m ²	ISO 179
	0 °C notched / unnotched	1,3 / 16	KJ/m ²	ISO 179
	-20°C notched / unnotched	1,2 / 13	KJ/m ²	ISO 179
	-40°C notched / unnotched	1 / 12	KJ/m ²	ISO 179
Izod Impact Strength	23 °C notched	3	KJ/m ²	ISO 180
Thermal				
Vicat (10N, 120°/h)		153	°C	ISO 306
Vicat (50N, 120°/h)		97	°C	ISO 306
HDT (T _{ff} 0,45 MPa)		83	°C	ISO 75
HDT (T _{ff} 1,8 MPa)		57	°C	ISO 75
Others				
Shrinkage, 150x100x3mm		1,03 – 1,14	%	ISO 2577
Shore D Hardness, 15s		71	°Shore	ISO 868

STORAGE

El ISPLEN® PM 470 XT 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.

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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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