

# ISPLEN® PM 440 AT

Polypropylene Homopolymer

REPSOL

## Message:

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

ISPLEN® PM470 AT 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.

General Information	
Filler / Reinforcement	Mineral,40% Filler by Weight
Additive	Heat Stabilizer
Features	Good Chemical Resistance
	High Stiffness
	Low Shrinkage
	Low Warpage
	Medium Flow
	Medium Heat Resistance
Uses	Automotive Applications
	Automotive Interior Parts
	Automotive Under the Hood
	Electrical Housing
	Power/Other Tools
	White Goods & Small Appliances

Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Molding Shrinkage <sup>1</sup>	0.60 to 0.80	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	77		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4300	MPa	ISO 527-2
Tensile Stress (Yield)	32.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	4550	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact Strength			ISO 180
0°C	2.8	kJ/m <sup>2</sup>	
23°C	2.9	kJ/m <sup>2</sup>	
Unnotched Izod Impact Strength			ISO 180
0°C	11	kJ/m <sup>2</sup>	
23°C	18	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	124	°C	ISO 75-2/B
1.8 MPa, Unannealed	79.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	156	°C	ISO 306/A120
--	107	°C	ISO 306/B120
NOTE			
1.	150x100x3mm		

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