

ISPLEN® PM 270 AT

Polypropylene Homopolymer

REPSOL

Message:

Polypropylene homopolymer, 20% mineral fillers reinforced and high melt flow rate.

ISPLEN® PM270 AT gives a high stiffness, and a low warpage and shrinkage behaviour. This product is high heat stabilised.

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.

General Information	
Filler / Reinforcement	Mineral,20% Filler by Weight
Additive	Heat Stabilizer
Features	Heat Stabilized
	High Flow
	High Stiffness
	Low Shrinkage
	Low Warpage

Uses	Automotive Applications
	Automotive Under the Hood
	Engineering Parts

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage ¹	0.93 to 0.97	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	73		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	32.0	MPa	
Break	25.0	MPa	
Tensile Strain			ISO 527-2
Yield	5.0	%	
Break	22	%	
Flexural Modulus	2600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179

-40°C	1.3	kJ/m ²	
-20°C	1.3	kJ/m ²	
0°C	1.4	kJ/m ²	
23°C	2.2	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-40°C	14	kJ/m ²	
-20°C	15	kJ/m ²	
0°C	15	kJ/m ²	
23°C	33	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	109	°C	ISO 75-2/B
1.8 MPa, Unannealed	66.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	153	°C	ISO 306/A120
--	95.0	°C	ISO 306/B120
NOTE			
1.	150x100x3mm		

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