

ISPLEN[®] PM 490 AT

Polypropylene Homopolymer

REPSOL

Message:

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

ISPLEN[®] PM490 AT 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.

General Information	
Filler / Reinforcement	Mineral,40% Filler by Weight
Additive	Heat Stabilizer
Features	Heat Stabilized High Flow High Stiffness Low Shrinkage Low Warpage

Uses	Automotive Applications Automotive Interior Parts Automotive Under the Hood Electrical Housing Engineering Parts Housings Power/Other Tools White Goods & Small Appliances
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Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30	g/10 min	ISO 1133
Molding Shrinkage ¹	0.60 to 1.0	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	30.0	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	4800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180
-20°C	1.8	kJ/m ²	
0°C	2.2	kJ/m ²	

23°C	2.5	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180
-20°C	7.0	kJ/m ²	
0°C	10	kJ/m ²	
23°C	12	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	113	°C	ISO 75-2/B
1.8 MPa, Unannealed	68.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	152	°C	ISO 306/A120
--	87.0	°C	ISO 306/B120
NOTE			
1.	150x100x3mm		

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