

ISPLEN® PM 474 AT

Polypropylene Copolymer

REPSOL

Message:

Polypropylene copolymer, 40% mineral filler reinforced and improved processability.

ISPLEN® PM 474 AT shows a high stiffness keeping a good impact strength level. This 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, power tools.

Technical pieces, in general.

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Impact Resistance		
	Good Processability		
	Heat Stabilized		
	High Stiffness		
Uses	Automotive Applications		
	Automotive Interior Parts		
	Automotive Under the Hood		
	Electrical Housing		
	Engineering Parts		
	Housings		
	Power/Other Tools		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	ISO 1133
Molding Shrinkage ¹	0.60	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	67		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3900	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	22.0	MPa	
Break	20.0	MPa	
Tensile Strain			ISO 527-2
Yield	1.7	%	
Break	3.5	%	

Flexural Modulus	3500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	1.4	kJ/m ²	
-20°C	1.7	kJ/m ²	
0°C	1.8	kJ/m ²	
23°C	2.4	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-40°C	10	kJ/m ²	
-20°C	11	kJ/m ²	
0°C	12	kJ/m ²	
23°C	21	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	63.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A120
--	80.0	°C	ISO 306/B120
NOTE			
1.	150x100x3mm		

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