

ISPLEN® PM 274 AT

Polypropylene Copolymer

REPSOL

Message:

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

ISPLEN® PM274 AT shows a good compromise between impact strength and stiffness, keeping a low warpage and shrinkage behaviour.

The product is high heat stabilised.

APPLICATIONS

Automotive: Under the bonnet parts subjected to high thermal stress. Interior trims.

Technical pieces, in general.

General Information			
Filler / Reinforcement	Mineral,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Impact Resistance		
	Good Stiffness		
	Heat Stabilized		
	High Flow		
	Low Shrinkage		
	Low Warpage		
Uses	Automotive Applications		
	Automotive Interior Trim		
	Automotive Under the Hood		
	Engineering Parts		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ISO 1133
Molding Shrinkage ¹	0.87 to 0.88	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1850	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	25.0	MPa	
Break	19.5	MPa	
Tensile Strain			ISO 527-2
Yield	4.5	%	
Break	22	%	
Flexural Modulus	2000	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	2.0	kJ/m ²	
-20°C	2.0	kJ/m ²	
0°C	3.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-40°C	21	kJ/m ²	
-20°C	25	kJ/m ²	
0°C	35	kJ/m ²	
23°C	57	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	74.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	53.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	147	°C	ISO 306/A120
--	75.0	°C	ISO 306/B120
NOTE			
1.	150x100x3mm		

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