

ISPLEN® PM 252 AS

Polypropylene Copolymer

REPSOL

Message:

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

ISPLEN® PM252 AS gives a high impact resistance even at low temperatures showing a good stiffness, and a low warpage and shrinkage behaviour.

APPLICATIONS

Automotive: Under the bonnet parts subjected to high thermal stress (Light housings, heat and ventilation ducts).

Electrical appliances.

Technical pieces, in general.

General Information			
Filler / Reinforcement	Mineral,20% Filler by Weight		
Features	Good Flow		
	Good Stiffness		
	High Impact Resistance		
	Low Shrinkage		
	Low Temperature Impact Resistance		
	Low Warpage		
Uses	Appliance Components		
	Automotive Applications		
	Automotive Under the Hood		
	Electrical/Electronic Applications		
	Engineering Parts		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180
-20°C	2.5	kJ/m ²	
0°C	3.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180

-20°C	18	kJ/m ²	
0°C	28	kJ/m ²	
23°C	55	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	73.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A120
--	75.0	°C	ISO 306/B120

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