

ISPLEN® PM 281 BV

Polypropylene Copolymer

REPSOL

Message:

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

ISPLEN® PM281 BV was designed showing a high stiffness with a good impact resistance, and a low warpage and high shrinkage behaviour. It shows really good gloss surface and an excellent scratch resistance. The product is UV stabilised.

APPLICATIONS

Automotive: Interior trims and panels.

Electrical appliances.

Technical pieces, in general.

General Information			
Filler / Reinforcement	Mineral,20% Filler by Weight		
Additive	UV Stabilizer		
Features	Good Flow		
	Good Impact Resistance		
	High Gloss		
	High Shrinkage		
	High Stiffness		
	Low Warpage		
	Scratch Resistant		
Uses	Appliances		
	Automotive Applications		
	Automotive Interior Trim		
	Electrical/Electronic Applications		
	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)	20	g/10 min	ISO 1133
Molding Shrinkage ¹	0.82 to 0.85	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	68		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	26.0	MPa	
Break	21.0	MPa	
Tensile Strain			ISO 527-2

Yield	4.0	%	
Break	18	%	
Flexural Modulus	2500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	1.5	kJ/m ²	
0°C	2.5	kJ/m ²	
23°C	3.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	32	kJ/m ²	
0°C	40	kJ/m ²	
23°C	70	kJ/m ²	
Notched Izod Impact Strength (23°C)	4.0	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	60	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	94.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	63.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	149	°C	ISO 306/A120
--	83.0	°C	ISO 306/B120
NOTE			
1.	150x100x3mm		

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