

ISPLEN® PM 470 XT

Polypropylene Homopolymer

REPSOL

Message:

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

ISPLEN® PM470 XT shows a high stiffness, as well as a low warpage and shrinkage behaviour. The product is high heat and chemical stabilised.

APPLICATIONS

Automotion: technical pieces with special geometry.

Air conditioning housing.

Electrical housings, power tools.

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Stiffness		
	Low Shrinkage		
	Low Warpage		
	Medium Flow		
Uses	Electrical Housing		
	Engineering Parts		
	Housings		
	Power/Other Tools		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage ¹	1.0 to 1.1	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	71		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	22.0	MPa	
Break	17.0	MPa	
Tensile Strain			ISO 527-2
Yield	2.5	%	
Break	37	%	
Flexural Modulus	2600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179
-40°C	1.0	kJ/m ²	
-20°C	1.2	kJ/m ²	
0°C	1.3	kJ/m ²	
23°C	1.6	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-40°C	12	kJ/m ²	
-20°C	13	kJ/m ²	
0°C	16	kJ/m ²	
23°C	38	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	83.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	57.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	153	°C	ISO 306/A120
--	97.0	°C	ISO 306/B120
NOTE			
1.	150x100x3mm		

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