

ISPLEN® PC 172 AV

Polypropylene Copolymer

REPSOL

Message:

Polypropylene copolymer compound, with 15% calcium carbonate and high melt flow rate.

ISPLEN® PC172 AV shows good impact strength an a medium rigidity. It gives high stiffness, and a low warpage and shrinkage behaviour.

This product is UV stabilised an antistatic formulated.

APPLICATIONS

Aesthetic applications which require good gloss surface.

Garden furniture.

Toys.

Household.

General Information	
Filler / Reinforcement	Calcium Carbonate,15% Filler by Weight
Additive	Antistatic
	UV Stabilizer
Features	Antistatic
	Good Impact Resistance
	High Flow
	High Stiffness
	Low Warpage
	Medium Gloss
	Medium Rigidity
Uses	Furniture
	Household Goods
	Toys

Physical	Nominal Value	Unit	Test Method
Density	1.01	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ISO 1133
Molding Shrinkage ¹	1.1 to 1.3	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	23.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	%	ISO 527-2
Flexural Modulus	1500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179

-40°C	1.3	kJ/m ²	
-20°C	1.5	kJ/m ²	
0°C	2.0	kJ/m ²	
23°C	3.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-40°C	36	kJ/m ²	
-20°C	40	kJ/m ²	
0°C	54	kJ/m ²	
23°C	110	kJ/m ²	
Notched Izod Impact Strength (23°C)	4.0	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	90	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	81.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	146	°C	ISO 306/A120
--	90.0	°C	ISO 306/B120
NOTE			
1.	150x100x3mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

