

ISPLEN® PC 474 AV

Polypropylene Copolymer

REPSOL

Message:

ISPLEN® PC474 AV is a polypropylene copolymer compound, charged with 40% calcium carbonate and high melt flow rate. ISPLEN® PC474 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.
- Components in washing machines.

General Information	
Filler / Reinforcement	Calcium Carbonate,40% Filler by Weight
Additive	Antistatic
	UV Stabilizer
Features	Antistatic
	Good Impact Resistance
	High Flow
	High Stiffness
	Low Shrinkage
	Low Warpage
	Medium Gloss
	Medium Rigidity
Uses	Furniture
	Household Goods
	Toys
	White Goods & Small Appliances

Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ISO 1133
Molding Shrinkage ¹	1.1	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2
Tensile Stress (Yield)	2.60	MPa	ISO 527-2

Tensile Strain (Yield)	19	%	ISO 527-2
Flexural Modulus	2250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	1.0	kJ/m ²	
-20°C	1.4	kJ/m ²	
0°C	1.5	kJ/m ²	
23°C	2.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-40°C	12	kJ/m ²	
-20°C	15	kJ/m ²	
0°C	41	kJ/m ²	
23°C	45	kJ/m ²	
Notched Izod Impact Strength			ISO 180
0°C	2.5	kJ/m ²	
23°C	3.0	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180
0°C	15	kJ/m ²	
23°C	50	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	75.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A120
--	93.0	°C	ISO 306/B120
NOTE			
1.	150x100x3mm		

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