

Isplen® Polypropylene

Chemicals
Technical data sheet


ISPLEN® PC172AV

ISPLEN® PC172AV is a copolymer compound with 15% calcium carbonate and high melt flow rate. It shows good impact strength, medium rigidity, high stiffness, low warpage and low shrinkage behaviour. This product is UV stabilised and antistatic formulated.

APPLICATIONS

Aesthetic applications which require good gloss surface.

- Garden furniture.
- Toys.
- Household.

Recommended melt temperature range from 190 to 250°C. Processing conditions should be optimised for each production line.

PROPERTIES	VALUE	UNIT	METHOD
General			
Melt flow rate (230°C/2.16Kg)	13.5	g/10min	ISO 1133
Density at 23°C	1,010	kg/m ³	ISO 1183
Mechanical			
Flexural modulus of elasticity	1,500	MPa	ISO 178
Tensile strength at yield	23	MPa	ISO 527-2
Tensile strain at yield	4	%	ISO 527-2
Charpy impact strength (23°C, notched)	3	kJ/m ²	ISO 179
Charpy impact strength (23°C, unnotched)	107	kJ/m ²	ISO 179
Charpy impact strength (0°C, notched)	2	kJ/m ²	ISO 179
Charpy impact strength (0°C, unnotched)	54	kJ/m ²	ISO 179
Charpy impact strength (-20°C, notched)	1.5	kJ/m ²	ISO 179
Charpy impact strength (-20°C, unnotched)	40	kJ/m ²	ISO 179
Charpy impact strength (-40°C, notched)	1.3	kJ/m ²	ISO 179
Charpy impact strength (-40°C, unnotched)	36	kJ/m ²	ISO 179
Izod impact strength (23 °C, notched)	4	kJ/m ²	ISO 180
Izod Impact strength (23 °C, unnotched)	90	kJ/m ²	ISO 180
Thermal			
Vicat softening temperature A120 (10N)	146	°C	ISO 306
Vicat softening temperature A120 (50N)	90	°C	ISO 306
HDT 0.45 MPa	81	°C	ISO 75
HDT 1.8 MPa	55	°C	ISO 75

This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

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Others			
Moulding shrinkage (S_{Mp}/S_{Mn})	1.1 / 1.3	%	ISO 294-4
Shore hardness D	66	-	ISO 868

STORAGE

ISPLEN[®] PC172AV should be stored in dry atmosphere paved, drained and not flooded area at temperatures under 60°C and protected from UV radiation. Storage under improper conditions could trigger off degradation processes, negatively influencing processability and properties of the transformed product.

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