

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PC474AV

DESCRIPTION

ISPLEN® PC474AV is a copolymer compound charged with 40% calcium carbonate and high melt flow rate. It shows good impact strength, medium rigidity, high stiffness, low warpage and low shrinkage behaviour. It is UV stabilised and antistatic formulated.

APPLICATIONS

Aesthetic applications which require good gloss surface.

- Gardens furniture.
- Toys
- Household
- Components in washing machines.

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

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (230°C, 2.16 kg)	13.5	g/10 min	ISO 1133
Density at 23°C	1240	kg/m ³	ISO 1183
Mechanical			
Flexural modulus of elasticity	2250	MPa	ISO 178
Tensile modulus of elasticity	2100	MPa	ISO 527
Tensile strength at yield	19	MPa	ISO 527-2
Tensile strain at Yield	2.6	%	ISO 527-2
Charpy impact strength (23°C, notched)	2	kJ/m ²	ISO 179
Charpy impact strength (23°C, unnotched)	45	kJ/m ²	ISO 179
Charpy impact strength (0°C, notched)	1.5	kJ/m ²	ISO 179
Charpy impact strength (0°C, unnotched)	41	kJ/m ²	ISO 179
Charpy impact strength (-20°C, notched)	1.4	kJ/m ²	ISO 179
Charpy impact strength (-20°C, unnotched)	15	kJ/m ²	ISO 179
Charpy impact strength (-40°C, notched)	1	kJ/m ²	ISO 179
Charpy impact strength (-40°C, unnotched)	12	kJ/m ²	ISO 179
Izod impact strength (23°C, notched)	3	kJ/m ²	ISO 180
Izod impact strength (23°C, unnotched)	50	kJ/m ²	ISO 180
Izod impact strength (0°C, notched)	2.5	kJ/m ²	ISO 180
Izod impact strength (0°C, unnotched)	5	kJ/m ²	ISO 180
Thermal			
Vicat softening temperature A120 (10N)	150	°C	ISO 306
Vicat softening temperature A120 (50N)	93	°C	ISO 306
HDT 0,45 MPa	75	°C	ISO 75
HDT 1,8 MPa	60	°C	ISO 75
Others			
Mold shrinkage (parallel-normal direction)	1.1-1.1	%	ISO 2577
Shore hardness D	70	-	ISO 868

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.

Technical Service and Development:
Repsol Technology Centre
Ctra. de Extremadura A5, Km 18
28931 Móstoles, Madrid
Tel. +34 91 753 86 00
atd_poliiolefinas@repsol.com

Headquarters:
Méndez Álvaro, 44
28045 Madrid
Spain
www.chemicals.repsol.com

Customer Care:
sacrq@repsol.com

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STORAGE

ISPLEN[®] PC474AV 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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