TECHNICAL DATA SHEET

Repsol ISPLEN PC474AV

REPSOL 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 behavior. It is UV stabilized and antistatic formulated

Applications:

- Garden furniture.
- Toys.
- Household.

Recommended melt temperature range from 190 to 250ºC. Processing conditions should be optimized for each production line.

Properties:

Properties	Value	Unit	Test Method
GENERAL			
Melt flow rate (190ºC, 2.16kg)	13.5	g/10 min	ISO 1133
Density at 23 ºC	1240	kg/m3	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 (23ºC,notched)	2	KJ/m2	ISO 179
Charpy impact strength (23ºC,unnotched)	45	KJ/m2	ISO 179
Charpy impact strength (0ºC,notched)	1.5	KJ/m2	ISO 179
Charpy impact strength (0ºC,unnotched)	41	KJ/m2	ISO 179
Charpy impact strength (-20ºC,notched)	1.4	KJ/m2	ISO 179
Charpy impact strength (-20ºC,unnotched)	15	KJ/m2	ISO 179
Charpy impact strength (-40ºC,notched)	1	KJ/m2	ISO 179
Charpy impact strength (-40ºC,unnotched)	12	KJ/m2	ISO 179
Izod impact strength (23ºC,notched)	3	KJ/m2	ISO 180
Izod impact strength (23ºC,unnotched)	50	KJ/m2	ISO 180
Izod impact strength (0ºC,notched)	2.5	KJ/m2	ISO 180
Izod impact strength (23ºC,unnotched)	5	KJ/m2	ISO 180

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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OTHER			
Moulding shrinkage (Smp/Smn)	1.1/ 1.1	%	ISO 294-4
HDT 0,45 MPa	75	°C	ISO 75
HDT 1,8 MPa	60	°C	ISO 75
VIcat softening temperature A120 (10N)	150	°C	ISO 306
VIcat softening temperature A120 (50N)	93	°C	ISO 306
Shore Hardness D	70	-	ISO 868

Storage:

The grade REPSOL ISPLEN PC474AV should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60ºC and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes or undesired migration of additives included in its formulation which may have a negative influence on the processability and the properties of the transformed product.

Disclaimer:

This grade does not comply with the European regulations for materials for use in food contact. This grade is not intended to be used in medical, pharmaceutical, or healthcare applications, therefore Repsol does not authorize its use in them.

Repsol does not grant express or implicit guarantees that extend beyond the description contained herein. Nothing herein shall constitute any guarantee of merchantability or fitness for a particular purpose. Before using a product sold by Repsol, users must make their own independent determination that the product is safe, legal, and technically suitable for its intended use. Repsol does not assume any responsibility for the use of its materials together with other materials.

Related documents:

The following related documents are available on request, and represent various aspects on the usability and safety of the product:

- Safety data sheet.

Recommended consumption period: 12 months from the date of delivery to the customer.

March 2026

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