

1. Product Description

Dinamica® Auto is a textile product classified as manmade suede based on polyester ultra-microfiber and polyurethane suitable for car interior.

Soft nap, suede-like appearance, hand, and the wide range of colors make Dinamica® particularly popular for luxury interiors in the automotive sector.

Dinamica® Auto is resistant to traction, resistant to wear and light.¹

2. Typical Applications / Uses

Dinamica® Auto has been designed to meet the requirements of the automotive sector for the following applications:

- Seats
- Pillows
- Steering Wheel
- Bolster / Armrest
- Piping
- Parcel shelf
- Door panel
- Headrest
- Console - Side part
- Roller blind

Dinamica® Auto can be purchased as it is or laminated with foams, non-woven, fabrics or knits.

Dinamica® Auto can be embellished with the usage of different technologies, some technologies are not just to decorate, but also to improve its properties: perforation, stitching, lamination, high frequency welding, embossing, laser engravings, ...

3. Warehouse conditions

Standard storage conditions for textile products are acceptable for Dinamica® also. As Dinamica® is complex polymer matrix, extreme storage conditions should be avoided.

Extreme storage conditions for medium-long periods (months) could compromise some properties typical of Dinamica®. It is advised to keep the Dinamica® products in the original packaging, keep away from direct sunlight and not to exceed temperature/relative humidity of 50° C and 70% respectively.

The typical properties remain unaltered over time for longer periods, if Dinamica® is properly stored. Its stability over time is guaranteed by the numerous aging tests to which it is subjected in the design (Prototype/Pilot) phase and before being placed on the market, as required by the technical specifications of the Automotive sector.

¹ See the information about physical-mechanical properties in Chapter 5: Test Data



If the Dinamica® product exceeds two years of storage at the customer's plant, it is advisable to carry out a requalification of the physical-mechanical properties related to the processes to which it will be subjected. The requalification after two years is necessary as the storage / storage conditions applied by the customer may have changed the performance of the product and therefore be different from those detected in the testing phase before being placed on the market / supplied to the customer.

In case of any doubts regarding the requalification activity, please do not hesitate to contact our customer care (commercial technical service).

For the cleaning and maintenance of Dinamica®, information is available at the following link:

<https://dinamicamiko.com/static/download/CleaningInstructions.pdf>

4. Availability

Dinamica® Auto is on the market in different versions of colors, different performances in compliance with post processes of cutting and sewing. It's always in accord to the technical standards of the Car Interior Manufacturers.

5. Physical & mechanicals Properties (Test Data)

Dinamica® Auto products are tested according to the requirements of the Automotive sector through the application of control plans that include all the different regulations applicable by customers. The following table contains a summary of the methods (widely used international standards) Miko S.r.l. applies and refers to while testing different properties of Dinamica®.

The selection of the standards presented in the table of content contains a whole set of simulations of the performance of the product when it is processed and put on the market for use:

TYPE OF TEST	TEST METHOD	UNIT	REFERENCE VALUE
Weight	ISO 29073/1	g/m ²	300
Thickness	ISO 5084	mm	1,10
Usable width	EN 1773	mm	≥ 1400
Tensile strength	ISO 13934/1	N/5cm	≥ 600
Breaking elongation at maximum force	ISO 13934/1	%	≥ 20
Tear strength	ISO 13937/2	N	≥ 20
Abrasion resistance with Martindale	ISO 12947	Cycles	50.000
Color fastness to Light	ISO 105-B06 (Set of conditions n°3)	Grey scale ISO 105-A02	≥ 3
Color fastness to Rubbing	ISO 105-X12	Grey scale ISO 105-A03	Dry ≥ 4 Wet ≥ 3/4
Flame behavior	FMW SS 302	mm/min	≤ 100 mm/min
Color tolerance versus master sample ≥ 4 Grey scale (ISO 105-A02)			

The above data are indicative and generally represent the Dinamica® Auto product family.

Dyeing and physical-mechanical performances of Dinamica® Auto are established "ad hoc" in specific technical specifications signed according to the user's needs.

6. Compatibility and Warnings

Contact with high temperature, organic solvent, chemicals, or products (textiles, leathers, artificial leathers, plastics, threads, etc..) containing chemicals (silicones, plasticizers, hydrophobic substances, etc..) having a strong color “extraction power” should be avoided.

Although Dinamica® Auto is used in applications that require fire resistance tests, it is still advisable to manage storage according to the correct fire prevention criteria.

If Dinamica® Auto is involved in a fire, the ordinary precautions required for products with the same composition (polyester ultra-microfiber and polyurethane) must be implemented.²

7. Technical and Application Assistance

Dinamica® Auto in its various versions is suitable for post-processing that generally concerns lamination processes. Development of different post-processing necessitate in-depth knowledge of the behavior of Dinamica® on the plants and the optimal regulation of the process parameters. Customers wishing to carry out these activities will be able to receive support from the technicians from Miko's Technical Department (guideline for post processing of Dinamica®). Miko S.r.l. provides a technical support to answer Your technical and application related questions. The e-mail is:

info@dinamicamiko.it or <https://dinamicamiko.com>

8. Warranties

Dinamica® Auto is supplied to customers based on specific contractual agreements that identify its performance according to the intended applications.

The product warranty is always included within the contractual agreements and has as its object the satisfaction of the customer's request.

² Annex to Ch. 6_Dinamica technical data sheet