

The logo consists of a black hexagon on the left, followed by a purple diagonal bar that extends upwards and to the right, and then the word "comfort" in a bold, black, lowercase sans-serif font.

comfort



A-COMFORT
The most comfortable
material for casual footwear

a-COMFORT



The new material for casual footwear and durable soles

a-COMFORT offers the durability of rubber and the lightweight characteristics of a foamed material.

It consists of an injectable material that is very lightweight, flexible, easy to work with, versatile, comfortable, and has a soft touch. This allows for the production of soles with up to three times less weight than a rubber or TPU sole, while maintaining the same performance as a rubber sole.

The use of top-grade polymers along with the best properties of blends of 2D and 3D carbonaceous structures allows for the creation of a material that facilitates the production of soles with unique properties, combining everything you might need in a single product.



You can make the difference

A shoe sole that combines the best of top-grade materials like rubber and TPU, and with a similar weight to PU, TR, or expanded TPU.

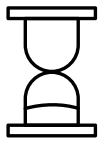
Processing characteristics.

The material injection process must be adjusted for each type of machine. As a reference, the material should be injected at a temperature of 165 -170°C.

Depending on the pressure and process temperature, the shrinkage after injection may vary, but after two weeks, the material is stable, similar to the other expanded injection system.

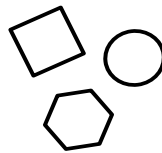


The best of a-COMFORT



Maximum durability

The sole doesn't wear down as much



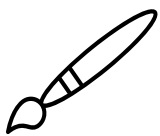
Adaptable to any design

For leisure and casual footwear



Maximum comfort

Max. cushioning
+ Max. anti-slip



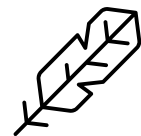
Colorable

Any design is possible



Antistatic

To avoid undesired electrostatic charges



Greater lightness

a-COMFORT = 0,17 - 0,55 g/cm³



Injection parameters.

Mold temperature	Curing time
165 - 170 °C	8 - 9 min

Properties.

- Densities 0,17 - 0,55g/cm³
- Abrasion <250 mm³ (ISO 20345) Contact heat resistant.
- Flexural strength > 150.000 cycles. (ISO 20344)
- Does not undergo hydrolysis.
- Colorable.
- Suitable for injection.
- Standard expansion coefficient:
1.2, 1.4, 1.5, 1.6, 1.8...






At Avanzare, we specialize in the development, production, and commercialization of advanced functional materials for both emerging applications and alternatives to traditional materials.


We provide high-performance solutions based on nanotechnology, 2D materials, and emerging materials, committed to the goal of producing disruptive changes in the industry.




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