

SUNBRELLA MARINE

# TEXTILE GUIDE SUSTAINABILITY INFORMATION

RAW MATERIAL:

# SOLUTION DYED ACRYLIC

## Low Water Consumption

### SOLUTION DYED



The colour pigments are added directly to liquid acrylic.

### YARN DYED



The acrylic is prepared in a colourless dye bath.

### PIECE DYED



The acrylic is prepared in a colourless dye bath.

#### EXTRUSION



The fibre is saturated with pigments for unrivalled UV resistance

#### SPINNING



The pigmented fibre is spun. The colour of the yarn is the same on the inside as the outside, similar to a carrot.

#### WEAVING



Fabric is woven with solution-dyed yarn for outstanding colour resistance to UV rays.



The fibre is unbleached.



The unbleached fibre is spun and then the yarn is dyed. The colour only coats the outside of the yarn, similar to a radish.



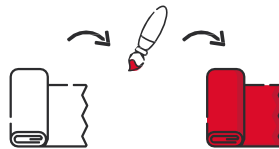
Colour resistance to UV rays is limited because the yarn is not dyed all the way through.



The fibre is unbleached.



The unbleached fibre is spun.



The unbleached yarn is woven and the fabric is then dyed. Colour resistance to UV rays is low because the fabric is only dyed on the surface.

#### SOLUTION DYED

Colourfastness



Water consumption



Environmental impact



Production cost



Min. production

10 T of fibre

#### YARN DYED

Colourfastness



Water consumption



Environmental impact



Production cost



Min. production

500 kg of yarn

#### PIECE DYED

Colourfastness



Water consumption



Environmental impact



Production cost



Min. production

500 m of fabric

UNMATCHED

# UV RESISTANCE

SUNBRELLA® ACRYLIC FABRIC  
IS THE MOST RESISTANT OVER TIME

## LONG-LASTING OUTDOOR FABRIC



GUARANTEED  
COLOR-FASTNESS



EXCELLENT  
MECHANICAL  
RESISTANCE



WATER  
REPELLENT



OPTIMAL  
THERMAL  
INSULATION

LONG LIFE PRODUCT, LESS FREQUENT REPLACEMENT

## WEATHER RESISTANCE TEST

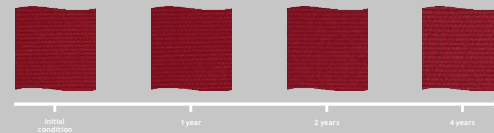
COLOR-FASTNESS AND MECHANICAL DAMAGE RESISTANCE



TEST PROTOCOL - ISO 105 B04

1000 hours - 2000 hours - 4000 hours of artificial aging in a climate chamber.  
These periods correspond respectively to 1 year - 2 years - 4 years of natural aging in  
climate conditions in the south of France.

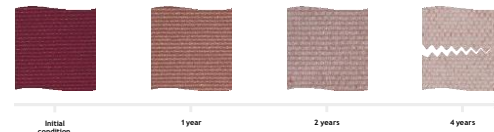
SOLUTION-DYED ACRYLIC **DICKSON®**



YARN-DYED ACRYLIC



YARN-DYED POLYESTER



POLYPROPYLENE



QUALITY /SAFETY /  
ENVIRONMENT /  
ENERGY





#### **Reduce our waste**

Thanks to our durable fabrics that do not fade, fabrics are long lasting and less waste is produced.



#### **Minimal water consumption**

The integration of color pigments directly into the fiber ensures color retention and also saves water. The small amount of water used in our weaving process is entirely recycled internally.



#### **Zero waste**

For more than 30 years, Sunbrella® has recycled its industrial waste, such as yarn and packaging. Today, every Sunbrella manufacturing site in the world follows this policy and sends no waste to landfill.



#### **Product Life Cycle Management**

Sunbrella created the Renaissance Heritage and Source Plus lines to recycle fibers and yarns.



# A BRAND THAT CARES ABOUT THE ENVIRONMENT

## RECYCLE

The environmental approach is integrated from the very beginning of the project. From the design to the production of the Heritage range, the use of recycled fibres is at the heart of our preoccupations.

**Heritage** is the first range in the Renaissance programme that has been developed to create seating and cushion fabrics containing 50% recycled Sunbrella® fiber.

More information

<https://global.sunbrella.com/en-us/sustainability>



## ACT

Keeping Sunbrella fabric waste out of landfills with Recycle My Sunbrella program

For more than 25 years, Glen Raven USA (Sunbrella Dickson brands) has been recycling acrylic manufacturing waste and sending it to partners who convert the materials into industrial products such as felt, automotive insulation and filtration. In 2010, Glen Raven launched a Recycle My Sunbrella program in the U.S. that allows domestic consumers to participate in the recycling process. It is a special "material take-back" program that provides an alternative to disposing of scrap fabric, awning covers, boat covers and upholstery. Since the programme was launched, business partners and homeowners have recycled over 57 tons of fabric.

<https://global.sunbrella.com/fr-fr/recycle-my-sunbrella/create>

## GET INVOLVED

Today, more than ever, there is a real awareness of the ecological emergency. Supporting The SeaCleaners and its actions against plastic pollution on land and at sea is a concrete and strong act, for which Dickson, with its Sunbrella® brand, wishes to make a commitment and raise the awareness of its employees, customers and service providers. By becoming an official sponsor of The SeaCleaners association founded by Yvan Bourgnon, Dickson and its Sunbrella® brand are contributing to the implementation of concrete actions to preserve our oceans and, more broadly, the environment. The association's main objective is to raise awareness of the problem of plastic pollution on land and at sea and to preserve the world's oceans, in particular through the implementation of its "Manta" project, the first deep-sea vessel capable of collecting and treating mass floating plastic waste before it breaks up



<https://www.theseacleaners.org/>

# OUR CERTIFICATIONS

Our company is committed to a continuous improvement approach for all QSEE issues.  
(Quality / Safety / Environment / Energy).

Our certifications attest to our ongoing efforts to improve the quality of our products and services, protect the environment, safeguard the health and safety of our employees, and optimise our energy efficiency.

ISO 9001 : Quality Management *Implemented since 2006*

ISO 14001 : Environmental Management *Implemented since 2012*

ISO 45001 : Occupational health and safety Management *Implemented since 2019*

ISO 50001 : Energy management *Implemented since 2020*



# REACH REGULATION

*Implemented since 2007*

Dickson Constant actively supports the goals of REACH, which aims to increase environmental protection and consumer safety.

REACH stands for «Registration, Evaluation, Authorisation and Restriction of Chemicals». The regulation came into force on 1 June 2007.

REACH is an EU regulation adopted to improve the protection of human health and the environment from chemical hazards and promote alternative methods.

Dickson Constant, in collaboration with its suppliers, continuously ensures its products are hazard-free for customers and the environment.



# OEKO-TEX

*Implemented since 2010*

Sunbrella® fabrics are produced without identified “hazardous substances” that may present a danger to health, skin or the environment.

Oeko-Tex standard 100 is an international testing and certification system for harmful substances in textiles. Our fabrics are certified Oeko-Tex Class II – Textiles in contact with the skin.

Oeko-Tex complies with the REACH regulation.



# GREENGUARD

*Implemented since 2007*

Greenguard certification attests that Sunbrella® textiles contribute to a healthy indoor environment with respect to chemical emissions



A COMPANY THAT CARES ABOUT

# THE ENVIRONMENT



Dickson is fully committed to the environment and takes high responsibility to the development of its products, the sourcing of its raw materials, its production process as well as with its customer in order to give its products a new lease of life.

All these actions form part of our GREENOVATION program.



# WASTE MANAGEMENT



**We sort most of the waste from our head office and production site.** Nearly 300 tons of waste are sorted each year for recycling or specific recovery.

## **Consumables**

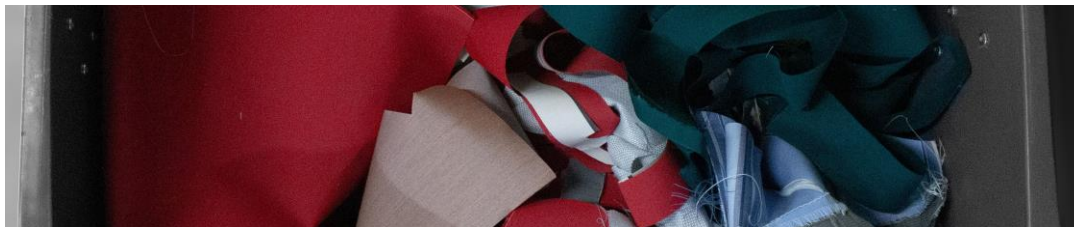
- Selective sorting system at head office and production site
- 6,500 pallets of yarn reused every year for our shipments
- Plastic packaging (61T/year), used pallets (30T/year) and cardboard boxes (65T/year) recycled by our partner PAPREC

## **Textile waste**

- We have a partnership to organize the collect of our weaving edges and to transform them into industrial filters, automotive felt, insulating products, and outdoor carpets
- We have a partnership to collect the edges resulting from inspection for energy recovery

## **Chemicals**

The use of solution-dyed acrylic eliminates the dyeing stage, which is recognized as highly polluting. All chemical waste is destroyed by an approved organisation - SOTRENOR (around 30T/year).



# WATER MANAGEMENT



The use of solution-dyed acrylic eliminates the water-intensive dyeing stage.

Average consumption: 5L of water/sqm of fabric.

By way of comparison, it takes 2,500 litres of water to make a t-shirt and 10,000 litres for a pair of jeans!

Our waste water is inspected once a week before being returned to the community network and reprocessed in a water treatment plant.



# ENERGY MANAGEMENT



Energy consumption optimisation, awarded ISO 50001 certification.  
Switch to LED lighting at our head office and Wasquehal and Hordain plants.  
Since January 1st, 2021, we have been using 100% green electricity.  
One square meter of fabric consumes 0.99 Kw of electricity and 0.82 Kw of gas.





**MORE INFORMATION  
SUNBRELLA.COM**

 **sunbrella**