PRODUCT SPECIFICATIONS

Material
Fabric: Polyester (PES)
Liner: Polypropylene (PP)

Made in BELGIUM

Weight
Fabric: 105 g/m²
Liner: 35 g/m²
Total: 140 g/m²

Fabric dimensions
Thickness: 0,3 mm
Width: 130 cm
Length: standard roll size 50m

CHARACTERISTICS

- Transparency level: transparent
- Lightfastness: 6-7
- Digitally printable with UV and Ecosolvent
- Digitally cuttable on flatbed cutter (Zund/Esko)
- Application tape:
  Paper: R-TAPE 4885
  Film: R-TAPE AT 75.1
- Damp-proof
- HR++(+) glass compatible (unprinted Squid®)
- UV resistant
- Cooling effect
- PVC-free
- Halogen-free

CERTIFICATES

Fire classification

B1 M1 B-s1-d0

Antibacterial - Sanitized

Sanitized®

Oeko-Tex standard 100

OEKO-TEX®
STANDARD 100

SPECIFICATIONS PER COLOR

	CHALK	BONE	OAK	ASH	ROCK
Light reflectance	38%	34%	23%	20%	17%
Light transmission	60%	57%	49%	47%	42%
Light absorption	2%	9%	28%	33%	41%
Solar reflectance	36%	33%	28%	25%	25%
Solar transmission	60%	59%	56%	54%	52%
Solar absorption	4%	8%	16%	21%	23%
UV transmission factor	46%	49%	42%	42%	38%
Total energy transmittance g	0.46	0.47	0.49	0.50	0.49
Reduction factor	0.79	0.80	0.83	0.84	0.84
Cooling effect	-3.0°C	-1.0°C	-0.2°C	-0.5°C	-0.2°C

SERVICE LIFE

Squid® has a service life of 5 years providing that Squid® is correctly installed and used without any removal and repositioning. Strict compliance with the storage, application and maintenance instructions is necessary to ensure the service life of Squid®.

Light fastness

As per DIN EN ISO 105-B02 (2014). Categorisation is from 1 (very low) to 8 (excellent).

Fire classification

B1: Standard DIN 4102-1*
M1: Standard NF P92 501-7 **
B-s1 d0: classified following NBN EN 13501-1 (test method: NF EN 13823+A1 2015 / NF EN ISO 11925-2 2013) **

*if bonded onto glass with a thickness of 3mm on one side and if this composite is mounted in a distance of >40mm to the same or other plain materials.

** These tests are performed with Squid® attached to an A1 Class substrate (a non-combustible material like glass, glazed bricks, plaster, ...).

Care instructions

Dry-brush
Carefully dry-brush fabrics using a soft clothes brush.

Wipe with a damp cloth
Fabrics cannot be washed. Carefully remove stains using a cloth moistened with a mild detergent base.

For more information, please refer to Squid's "Service life and maintenance" sheet.

Suitable for damp locations

Fabrics with this finishing ensure the greatest resistance in a warm and humid climate.

Antibacterial/Sanitized®

These fabrics have been treated with active agents that prevent the growth of various micro-organisms and are therefore particularly suitable for application in hospitals, nursing homes, surgeries, laboratories, etc. They can also be used in rooms with increased humidity.

PVC-free

For the treatment of these fabrics no use at all was made of PVC, i.e. they are free of any emollients or stabilisers.

Halogen-free

The fabric has had no treatment containing halogens.

Oeko-Tex® Standard 100

The Oeko-Tex® Standard 100 guarantees that successfully tested and certified textiles are free from harmful substances.

Computer workstation

Suitable for computer workstation environment.

Textile production

The fabric is 100% produced in Belgium (BE).

Light reflectance %

380nm-780nm
The visible amount of the light's radiation that gets reflected back by the sun blind. The higher a fabric's level of reflectance, the smaller the amount of light that gets through.

Light transmission %

380nm-780nm
The visible amount of the light's radiation that gets let through by the sun blind. The higher a fabric's level of transmittance, the greater the amount of light that gets let through.

Light absorption %

380nm-780nm
The visible amount of the light's radiation that gets absorbed by the sun blind and transformed into heat and given off again in the form of long-wave infra-red rays.

Solar reflectance %

280-2500nm
The fraction of the total incident sunlight (visible and infra-red) which is reflected by the sun protection. The higher the solar reflectance, the less the room is heated by incident sunlight.

Solar transmission %

280-2500nm
The fraction of the total incident sunlight (visible and infra-red), which is transmitted by the sun protection. The higher the level of solar transmittance, the greater the amount of solar energy that gets through.

Solar absorption %

280-2500nm
The fraction of the total incident sunlight (visible and infra-red), which is absorbed by the sun protection and converted to heat. The greater the solar absorbency, the more the room is heated by incident sunlight.

UV transmission factor %

280-380nm
The degree of UV transmission as defined by DIN EN 410 indicates how much ultraviolet light is being allowed through. UV light destroys pigmentation, resulting, for instance, in faded furniture and carpets.

Total energy transmittance g

The g-total is the measured total energy transmittance of standard glazing 'C' (g = 0.59/U = 1.2 W/m² K as per EN 13363-1) including sun protection. The smaller the g-total, the less the room temperature increases due to incident sunlight.

Reduction factor

Relationship between total energy transmittance of glazing with sun protection (g-total) and glazing without sun protection (g). The lower the value, the greater the reduction in incident sunlight intensity by the sun protection.

Fc Value explanation

The decisive value defining the energy-efficiency characteristics of a fabric is the Fc value which describes the efficiency of the sun protection in intercepting the incident sunlight in relation to the sun protection used and glazing type. When consistently used, a considerable minimisation of energy consumption for heating and cooling is achieved. The lower the energy class, the greater is the efficiency and thus the energy saving.

CLASS	FC VALUES OF CLASSES	IMPROVEMENT IN ROOM'S THERMAL COMFORT
1	0,20 - 0,39	very high
2	0,40 - 0,59	high
3	0,60 - 0,79	medium
4	0,80 - 0,89	low
5	> 0.90	neutral

Cooling effect

When you are standing behind a Squid® covered window on a sunny day, you can feel the cooling effect of Squid®. Thanks to the partial reflection of the sun, less radiation is entering through the window. The cooling effect is expressed in degrees celsius and describes the difference between the temperature you feel behind a Squid® covered window in comparison with the temperature you feel behind the same window without Squid®.

HR++(+) glass compatible

Compared with vinyl window films, unprinted Squid® itself can never lead to thermal stress that cause the glass to crack. The open structure allows the heat to escape. In combination with a number of other factors (bad installation, spot heating or partial exposure of the light) there is an increased chance of cracks.

Digitally printable with UV and Ecosolvent

Squid® can be printed rol to rol with UV and Ecosolvent inks. We will soon also release a new version that is also HP Latex compatible.

Digitally cuttable on flatbed cutter

ESKO tests were successful on Kongsberg 50-100m/min. settings: speed: 100% / 0.56G to 1.7G. For more information please contact your local ESKO centre.

ZUND tests were successful with cutter G3_L2500 / module UM-ZS / UCT-tool / speed: 70 / Standard glideshoe / acceleration level: 2 / Z-lower: 200 / cutting underlay: grey conveyor belt / software: ZCC. For more information please contact your local ZUND centre.

Application tapes

Paper: R-TAPE 4885 / Film: R-TAPE AT 75.1

SERVICE LIFE AND MAINTENANCE

Product characteristics

Squid® is a textile solution that results from a series of production processes. Despite the harmonised standards in the weaving process and post-treatment, different productions may fluctuate on certain parameters. Small deviations and imperfections are inevitable and typical of the development of the Squid® textile solution and are therefore accepted.

Storage

Squid® can be stored in its original packaging for a period of 2 years in an area with the following characteristics:

- Temperature from 15 °C to 22 °C
- Relative humidity from 50% to 55%

In order to avoid air bubbles and tunneling which could cause permanent deformations, Squid® must always be kept tight around its carton core, with its end fastened by tape in three evenly distributed places on the roll, i.e. far left, middle and far right.

Squid® rolls can be stored vertically and horizontally. In the latter case, the surface must be chosen so that (imprint) damage is avoided.

Correct application

Acclimatization

Prior to installation (or printing), Squid® rolls must rest for at least 1 hour, outside of their original packaging, at a stable temperature comprised between 15°C and 22°C. Squid® must be kept tightly rolled onto its carton core. In case Squid® was transported or stored at a temperature below 15°C, the acclimatization duration must be at least 4 hours.

Preparation

The windows to which Squid® is applied must be thoroughly cleaned and degreased using water with a small amount of ammonia or alcohol and then dried with a dust-free cloth.

Application

Squid® should always be installed on the inside of the window and according to the guidelines given in the instructional videos that are publicly available on the Squid® web site.

The temperature of the room must be between 15°C and 22°C and must remain stable. The temperature of the window surface (inside) or glass surface must be at least 10°C, in order to ensure a good adherence of Squid®.

Maintenance

To ensure Squid®'s service life, please also follow the following recommendations:

Normal maintenance

Squid® must not be removed for maintenance. Consequently, the inside of the window on which Squid® was placed should no longer be cleaned with water. Squid® itself can be cleared of dust regularly using a microfibre cloth or a vacuum cleaner with a soft brush.

Washing in a washing machine or chemical cleaning destroys the adhesive strength. This must be avoided at all cost.

Removing stains

Always avoid the formation of stains on Squid®. The following guidelines are recommended for removing stains.

- Remove excess liquids using an absorbent cloth and/or carefully scrape away hardened particles.
- Remove grease-free stains using a lukewarm microfibre cloth.
- Remove grease stains using a solvent-free stain remover. Solvents can reduce the strength of the glue.

We recommend that you always test the cleaner on a piece of Squid® to avoid unwanted effects.

Avoid using detergents or cleaners used for hard surfaces.

Avoid excessive pressure, tensile force or abrasion force on Squid® during maintenance. These can permanently damage the textile.

These recommendations are for guidance only and cannot guarantee the complete removal of stains.

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