

# SQUID®

## Technical specifications

(Version: 02 January 2017)



Color-Nr.			0001	0002	0003	0004	0005
Color			Chalk	Bone	Oak	Ash	Rock
Fabric			PES Polyester	PES Polyester	PES Polyester	PES Polyester	PES Polyester
Liner			PP Polypropylen	PP Polypropylen	PP Polypropylen	PP Polypropylen	PP Polypropylen
Fabric weight	g/m <sup>2</sup>		105	105	105	105	105
Liner weight	g/m <sup>2</sup>		35	35	35	35	35
Total weight	g/m <sup>2</sup>		140	140	140	140	140
Fabric thickness	mm		0,3	0,3	0,3	0,3	0,3
Fabric width	cm		130 (+2)	130 (+2)	130 (+2)	130 (+2)	130 (+2)
Transparency level			transparent	transparent	transparent	transparent	transparent
Lightfastness			6-7	6-7	6-7	6-7	6-7
Fire classification	D / CH		B1	B1	B1	B1	B1
Fire classification	B/F/L/NL		M1	M1	M1	M1	M1
Fire classification	EU		B-s1 d0	B-s1 d0	B-s1 d0	B-s1 d0	B-s1 d0
Care instructions			dry-brush	dry-brush	dry-brush	dry-brush	dry-brush
Damp-proof			√	√	√	√	√
Antibacterial			√	√	√	√	√
PVC-free			√	√	√	√	√
Halogen-free			√	√	√	√	√
Label Oeko-Tex Standard 100			√	√	√	√	√
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	°C		-3,0	-0,2	-0,2	-1,0	-0,5
Textile production			Made in BE	Made in BE	Made in BE	Made in BE	Made in BE
HR++(+ ) glass compatible			√	√	√	√	√

**Transparency levels**

- Transparent* Thanks to the lightweight and open fabric structure, the incident sunlight is softly filtered in the room. The view outside remains unimpaired. The blind, however, still ensures protection against glare caused by bright light.
- Semi-transparent* (translucent) The special fabric structure provides well-balanced light in the room. Thus stopping prying eyes. People and furniture can only be recognised as contours. Glare is reduced.
- Non-transparent* (hardly translucent) The thick fabric structure only allows a low level of light to enter the room. Thus stopping prying eyes from looking into the room. Dazzling is removed all but completely.
- Black-out* (opaque) The hanging is opaque as a result of the fabric's construction. Thus stopping prying eyes. Pleasant darkness can therefore also be achieved during the day.

**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 NFP 92 501-7 \*\*  
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 with this symbol using a soft clothes brush.
- Wipe with a damp cloth* Fabrics with this symbol cannot be washed. Carefully remove stains using a cloth moistened with a mild detergent base.

**Suitable for damp locations**

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

**Antibacterial**

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**

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.

<b>Light transmission %</b> (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.
<b>Light absorption %</b> (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.
<b>Solar reflectance %</b> (280-2500nm)	The fraction of 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.
<b>Solar transmission %</b> (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.
<b>Solar absorption %</b> (280-2500nm)	The fraction of the entire 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.
<b>UV transmission factor %</b> (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.
<b>Total energy transmittance g</b>	The g-total is the measured total energy transmittance of standard glazing 'C' ( $g = 0.59/U = 1.2 \text{ W/m}^2 \text{ K}$ as per EN 13363-1) including sun protection. The smaller the g-total, the less the room temperature increases due to incident sunlight.
<b>Reduction factor</b>	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.

<u>Class</u>	<u>Fc values of classes</u>	<u>Improvement in room's thermal comfort</u>
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

<b>Cooling effect</b>	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.
<b>HR++(+ ) glass compatible</b>	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.