



VISUAL CONTACT OUTSIDE



ECOLOGICAL FABRIC



FLAME RETARDANT



MANUFACTURED IN THE EU



ULTRASONIC CUT NOT REQUIRED

**TECHNICAL PROPERTIES**

Fabric Characteristic	Standard	
Composition		74% PVC + 24% PES 2% Aluminium- reflective coating
Weight (g/m <sup>2</sup> )	EN 12127	500± 5%
Yarn/cm	Internal method	Warp: 18 Fill: 20
Yarn diameter (mm)	Internal method	0.30
Openess Factor (%)	ASHRAE Standard 74-1988	Approximately 4%
UV blockage	-	96%
Thickness (mm)	EN ISO 5084:1997	0.53
Light fastness (grey scale level)	EN ISO 105 B06:2002 (interior) EN ISO 105 B03:1994 (exterior) EN ISO 105 B04:1998 (exterior) EN ISO 4892-2 (exterior)	5/5 4/5 White
Light fastness (blue scale level)	EN ISO 105 B02:2002 (interior)	8/8 7/8 white
Tearing resistance (daN)	EN ISO 13937-3:2001	6.6 (Warp)/ 6.1 (Weft)
Breaking strength (daN/5cm)	EN ISO 13934-1:1999	170 (Warp)/190 (Weft)
Stretch (%)	EN ISO 13934-1:1999	22.5 (Warp)/19 (Weft)
Adhesion on adhesive tape (SRC layer)	TESA 4651, 8N TESA 4657, 10 N	Without changes in surface -Pass
Resistance to humidity (SRC layer)	ISO 6270-2 (40°C, 100% RH) VW TL 226-3.10 (90°C, 100% RH)	Without changes in surface -Pass Without changes in surface -Pass
Light and temperature resistance (SRC layer)	VW TL 226 - 3.12.1 (500h, 110 °C) VW TL 226 - 3.12.1 (240h, 90 °C)	Without changes in surface -Pass Without changes in surface -Pass
Resistance to cleaning agents (SRC layer)	Based on ISO 2812-1- 30 cycles dry Based on ISO 2812-1- 30 cycles glass cleaner Based on ISO 2812-1- 30 cycles bleach Based on ISO 2812-1- 30 cycles soapy water Based on ISO 2812-1- 30 cycles ammonia 10% Based on ISO 2812-1- 30 cycles solvents	Without changes in surface -Pass Without changes in surface -Pass
Resistance to oil (SRC layer)	Based on ISO 2812-3- 48 h	Without changes in surface -Pass
Fire classification	EN 13773:2003 DIN 4102	Class 1 B1
Roll Size		Width 240 cm, Length 23.5 m

## SUN CONTROL PROPERTIES

Colour	% OF	%Ts	%Rs	%Tv	g <sub>tot</sub> internal Glazing C		g <sub>tot</sub> internal Glazing D		g <sub>tot</sub> external Glazing C		g <sub>tot</sub> external Glazing D		Glare Control	Night Privacy	Visual Contact	Daylight Utilisation
	Approx.				g <sub>tot</sub>	Class	Class	Class	Class	Class						
White	4	7	61	6	0.34	1	0.24	2	0.07	4	0.05	4	3	2	2	1
White Linen	4	6	61	6	0.34	1	0.24	2	0.06	4	0.05	4	3	2	2	1
White Pearl	4	5	61	5	0.34	1	0.24	2	0.05	4	0.04	4	3	2	2	1
Ebony Chocolate	4	4	61	4	0.34	1	0.23	2	0.05	4	0.04	4	3	2	2	1
Ebony Grey	4	4	61	4	0.34	1	0.23	2	0.05	4	0.04	4	3	2	2	1
Ebony	4	4	61	4	0.34	1	0.23	2	0.05	4	0.04	4	3	2	2	1

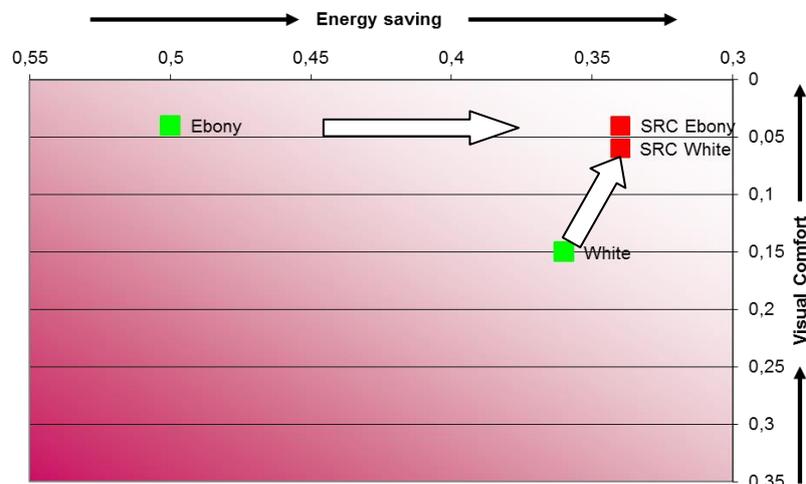
Data measured according to EN 410.

Calculations of g<sub>TOT</sub> are according to EN 13363.

Classification of thermal and visual characteristic according to EN 14501

Data of g<sub>TOT</sub> are given using standard Glazing C and D, though any other combination may be calculated under request.

- **Standard EN 14501** establishes a method to measure and classify thermal and visual comfort performance characteristics of blinds.
- **Ts:** Percentage of solar radiation transmitted. Data measured according to EN 410.
- **Rs:** Percentage of solar radiation reflected by the side of the fabric facing the sun, measured also under EN 410.
- **Tv.** Percentage of the visible part of the solar radiation transmitted through the blind.
- **OF-** Openness Factor: Relative area of pores in the fabric
- **g<sub>TOT</sub>:** Total energy transmittance of the shading device combined with the glazing employed. Calculations were carried out according to En 13363, without any air gap between fabric and glazing. **T.E.S.T. software** (Thermal Energy Saving Tool) especially developed by SOLARMATIC, in collaboration with the Engineering Department of University of Sevilla was employed for calculations of g<sub>TOT</sub>.
- **Glazing Standard C:** Double glazing low-e filled with argon 4-16-4
- **Glazing Standard D:** Reflective double low-e glazing filled with argon 4-12-4
- **Solar Reflective coating SRC.** The Aluminium coating on the side facing the sun leads to higher reduction in air conditioning by lowering g<sub>TOT</sub> factor and improves visual comfort by lowering %Tv:



Based on standard EN 14501 have been developed by SOLARMATIC as a useful tool in the selection of the right shading for each situation:



**Roller blinds**



**Panel blinds**



**Skylight blinds**