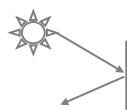




TRANSLUCENT



REFLECTIVE



FLAME RETARDANT



COLD KNIFE, CRUSH CUT OR
ULTRASONIC



100% RECYCLED PET

REACH COMPLIANT



INDOOR AIR QUALITY CERTIFIED



MANUFACTURED IN THE EU

PET is used to produce bottles for water and drinks, packaging for detergents and pharmaceutical products, after its use, the PET containers are thrown away and become rubbish, clogging our cities.

We believe in a better approach to the environmental use. We commit to a healthier approach **using recycled and recyclable material** in the development of longer life cycle products.

A square meter of PLANET is made of 6 thrown away bottles

Recycled polyester yarns are regular quality yarns with **characteristics equal to the ones** produced with virgin raw materials.

Planet FR SRC combines the technical characteristics of fire retardant Planet and the benefits of Solar Reflective Coating (SRC). The reflective layer on the side facing the sun leads to higher reduction in energy and improves visual comfort.

Planet FR SRC can filter **77% ($g_{TOT} = 0.23$)** of the solar energy depending on the glazing, independently of the chosen colour.

PLANET FR SRC is a plain, translucent fabric, ideal to match every decoration style.



TECHNICAL PROPERTIES		
Fabric Characteristic	Standard	
Composition	-	100% Recycled PET
Weight (g/ m²)	EN 12127	258± 5
Thickness (mm)	EN ISO 5084	0,37 ± 5
Fire Reaction	DIN 4102 NFPA 701	B1 PASS
Light Fastness (Xenotest grade)	ISO 105 B02:2002	≥ 6/8 White 6/8
Tearing resistance (daN)	EN ISO 13937-3:2001	Warp: 3,3 Weft: 5,5
Breaking resistance (daN)	EN ISO 13934-1:1999	Warp: 119,91 Weft: 138,5
Stretch (%)	EN ISO 13934-1:1999	Warp: 35,8% Weft: 29,7%
Openness factor %	Internal method	0%
Roll Size		Width 260 cm, Length 37 m

SUN CONTROL PROPERTIES

	THERMAL FACTORS						OPTICAL FACTORS								
	Fabric		Fabric+Glazing												
	% T _s	% R _s	G _{TOT} internal Glazing C		G _{TOT} internal Glazing D		% T _v	% R _v	% t _{v,n-n}	% t _{v,n-diff}	% t _{uv}	Glare Control	Night Privacy	Visual Con- tact	Daylight Utilisa- tion
Colour			G _{TOT}	Class	G _{TOT}	Class						Class	Class	Class	Class
White	15	73	0.31	2	0.23	2	12	77	0	12	0.3	1	3	0	2
Ivory	12	71	0.31	2	0.23	2	6	74	0	6	0.1	2	3	0	1
Light Grey	3	62	0.33	2	0.23	2	1	67	0	1	0.1	4	4	0	0

Data measured according to EN 410:2011 and EN 14500:2008

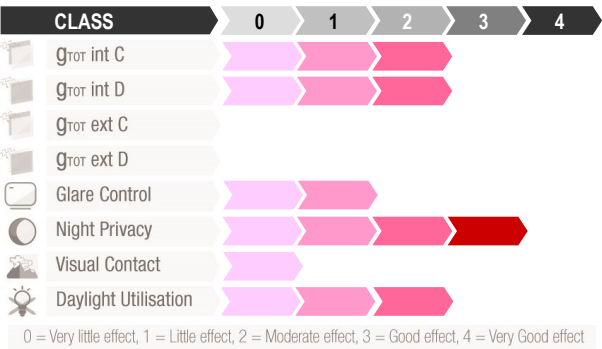
Calculations of g_{TOT} are according to EN 13363-1, with 10% frame area.

Classification of thermal and visual characteristics according to EN 14501:2005

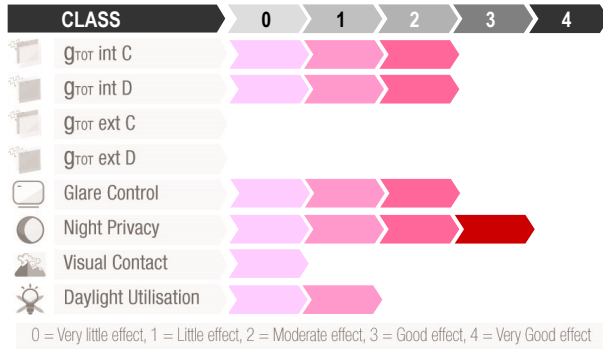
Data of g_{TOT} are given using standard Glazing C and D. though any other combination may be calculated under request

V.E.S.T. diagrams (Vertisol Efficiency Scale Table), based on standard EN 14501 have been developed by Vertisol as a useful tool in the selection of the right shading for each situation:

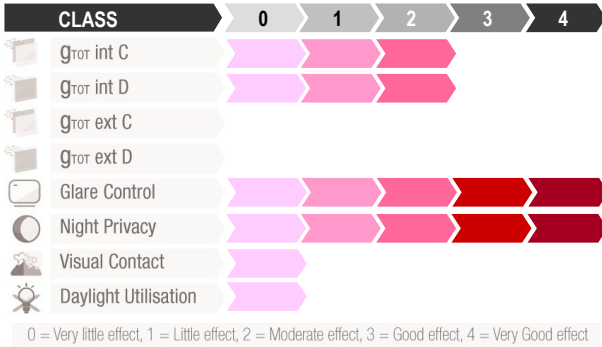
White



Ivory



Light Grey



Due to the structure of the fabric, part of the reflective coating will be clearly apperceived on the front side especially in colour Light Grey

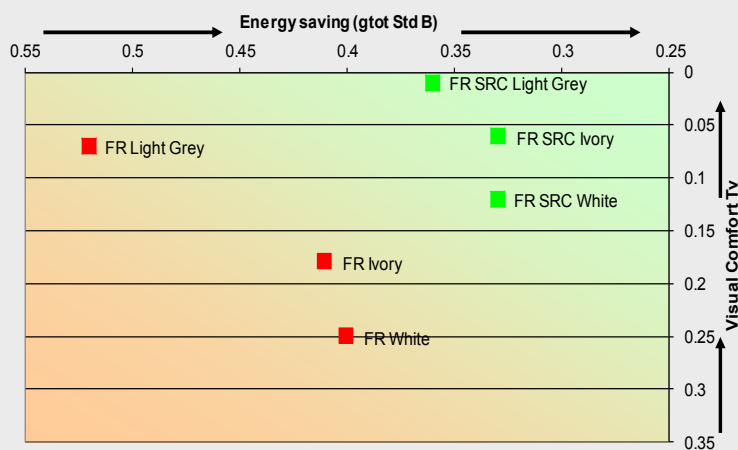
Environmental & health properties	⇒ Low VOC emission ⇒ Free of PVC, formaldehyde and lead. REACH compliant ⇒ Minimum content of plastic materials from separate collection on coated product weight: 58%
Manufacturing properties	⇒ Rolls must be stored and handled horizontally ⇒ Ultrasonic cut not required ⇒ Roller blinds: Not weldable ⇒ Vertical blinds: Use adhesive or sewing ⇒ Manufacturing direction: Only 'Drop to Length' ↓
Maintenance	⇒ Vacuum clean for regular maintenance. ⇒ Do not wash ⇒ Do not rub ⇒ Do not steam ⇒ Do not dry clean ⇒ Wipe gently with a wet sponge 

Thermal and visual properties

European Standard **EN 14501** states the properties that shall be taken into account when comparing solar protection devices. It also specifies the corresponding parameters and classifications to quantify its properties of **thermal and visual comfort**. Five performance classes are specified:

Class	Influence on thermal or visual comfort				
	0	1	2	3	4
	very little effect	little effect	moderate effect	good effect	very good effect

%Ts ($\tau_{e, n-h}$)	Normal/hemispherical solar transmittance. Ratio of the total transmitted flux to the directional incident global radiation, from 280 nm to 2500 nm (including UV and IR part of the solar spectrum).
%Rs ($\rho_{e, n-h}$)	Normal-hemispherical solar reflectance. Ratio of the total reflected flux to the directional incident global radiation, from 280 nm to 2500 nm (including UV and IR part of the solar spectrum).
g_{tot}	Total energy transmittance of the shading device combined with the glazing employed. It can be calculated according to EN 13363-1 (simplified method) or EN 13363-2 (ISO 15099, detailed method).
%Tv ($\tau_{v, n-h}$)	Most common standard glazing used in calculation (EN 14501): 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. Normal/hemispherical light transmittance. Ratio of the visual transmitted flux to the directional incident global radiation, from 380 nm to 780 nm. The total transmitted light is the sum of the direct transmittance through the fabric and the light diffused by it.
%Rv ($\rho_{v, n-h}$)	Normal/hemispherical light reflectance. Ratio of the visual reflected flux to the directional incident global radiation, from 380 nm to 780 nm.
$\tau_{v, n-n}$	Normal/normal light transmittance (direct). Its value is frequently close to the openness factor.
$\tau_{v, n-dif}$	Normal/diffuse light transmittance.
τ_{UV}	Ultra-Violet transmittance, From 280 to 380 nm.
%OF	Openness coefficient. Ratio between the area of the openings and the total area of the fabric. It can be approximated by $\tau_{v, n-n}$.



All specifications are based on average values and may deviate. The values are given for guidance and are not contractual. Subject to technical modifications

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