

Composition	42 % Fibreglass 58 % PVC		
Fire classification	M1 (F)	NFP 92 503	
	B1 (DE)	DIN 4102-1	
	BS (GB)	476 part 6 and 7 Class 0	
	FR (USA)	NFPA 701 – 89 Small NFPA 701 – 89 Large NFPA 701 – 99 TM # 1 California US Title 19 AWTA Tested AS 1530	
	AS (AUS)	part 2 and 3	
	B1 (CN)	GB 50222-95	
Openness factor	3 %		
UV screen	Up to 97 %		
Width	250 cm 98.4"		
Pattern	Basket weave 2 x 2		
Yarn count	Warp	18 yarns/cm 46/inch ± 0,5 %	ISO 7211/2
	Weft	16 yarns/cm 41/inch ± 0,5 %	
Weight per m ²	560 g 16.5 oz/yd² ± 5 %		ISO 2286 - 2
Thickness	0,53 mm 21 mil ± 5 %		ISO 2286 - 3
Breaking strength	Warp	> 280 daN/5 cm > 371 lbs/in	ISO 1421
	Weft	> 200 daN/5 cm > 265 lbs/in	
Elongation to break point	Warp and weft	< 5 %	ISO 1421
Tear resistance	Warp and weft	≥ 10 daN	Internal procedure
Resistance to fold	Warp and weft	≥ 20 daN/5 cm	Internal procedure
Colour fastness to light	scale of 8	7/8 White not graded	ISO 105 B02
Marking	Digital printing / Screen printing Transfer / Paint / Adhesive		
Making-up	Welding (thermal, high frequency, ultrasonic) or sewing		
Standard packaging	Rolls of 50 lm		

The data in this document is for information only and may not be considered as binding

Solar protection and light control indicators are laboratory-tested. The most relevant and widely-used factors are as follows:

➤ Thermal factors

Thermal factors relating to the fabric alone

T_s Solar transmittance:

this factor gives the proportion of solar energy transmitted through the fabric. A low percentage means the fabric performs well at reducing solar energy.

R_s Solar reflectance:

this factor gives the proportion of solar radiation reflected by the fabric. A high percentage means the fabric performs well at reflecting solar energy.

A_s Solar absorptance:

this factor gives the proportion of solar radiation absorbed by the fabric. A low percentage means the fabric absorbs little solar energy.

Solar radiation is always partially transmitted through, absorbed or reflected by the fabric. The sum of all 3 equals 100. T_s + R_s + A_s = 100 % of solar energy.



Thermal factors calculation using reference glazing and according to the position of the blind (indoor or outdoor)

Sc Shading coefficient (or Fc shading factor or z*): this factor shows how effective the fabric is at filtering the heat from solar radiation. It is expressed as a factor between 0 and 1. A low figure means high protection from heat flow.

Fs Solar factor or gtot factor*: the percentage of solar energy which actually penetrates into a room through the blind and glazing.

Fs = Sc x Fs of glazing

or in European terminology:
gtot = Fc x g of glazing*

The solar factor of the glazing (Fs of glazing or g of glazing) is an indication given by plain glass manufacturers.

This is often given randomly as **g of glazing = 0.75** as reference for standard double glazing.

> Optical factors

Tv Visible transmittance (or TL Light transmission): this factor gives the total percentage of light radiated through the fabric over a wavelength of 380 to 780nm (nanometers), called the visible spectrum (total illumination).

Of Openness factor (or Co Openness coefficient*): this factor gives, in brief, a percentage of holes in a fabric. In the European standard, it is considered as independent of the colour but, for fabrics with the same weave, it should be measured using the darkest colour in the range.

Tdif Diffuse transmission factor*: correlation of

the two factors above:

$$Tdif = Tv - Co$$

The diffuse part of total light transmission is indicated as Tvdif for the aspects of glare and shape recognition (visual contact to the outside/night privacy). However, for natural light control, it is indicated as Tvdifh. This is used to ascertain a fabric's light diffusion capacity. Panel becomes a source of light if the sun shines directly on it. The light intensity, or "luminance", emitted by a fabric can also be measured in candelas/m² (Cd/m²).

Tuv Ultraviolet transmittance factor:

this factor gives the percentage of ultraviolet light radiated through the fabric over a wavelength of 280 to 380 nm (nanometers). UV radiation accelerates natural ageing. All means of solar protection ensure a certain amount of protection from UV rays.

* European terminology

> Exterior



Dark colour Charcoal 3030	Light colour White 0202
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Visual transmission (Tv or TL) Tv = 4 %	Tv = 15 %
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Thermal transmission Total solar factor (gtot or fs) gtot = 9 %	gtot = 13 %
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> Interior



Dark colour Charcoal 3030	Light colour White 0202
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Visual transmission (Tv or TL) Tv = 4 %	Tv = 15 %
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Thermal transmission Total solar factor (gtot or fs) gtot = 37 %	gtot = 25 %
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Thermal and optical factors in the **European standard EN 14501 NEW!**

Openness factor (Co) OF 3%	Thermal factors							Optical factors		
	Ts	Fabric Rs	As	gv=0,59 g _{tot} external blind	gv=0,32 g _{tot} internal blind	Fabric + glazing gv=0,59 g _{tot} external blind	gv=0,32 g _{tot} internal blind	Tv	Tvndif	Tvdifh*
Colours										
0202 White	18	69	13	0,12	0,08	0,34	0,25	17	13	
0205 White Canary	18	61	21	0,13	0,09	0,37	0,25	17	13	
0220 White Linen	16	62	22	0,12	0,08	0,37	0,25	14	11	
0207 White Pearl	13	53	34	0,10	0,07	0,39	0,26	11	8	
0720 Pearl Linen	13	44	43	0,11	0,08	0,42	0,27	10	8	
1002 Sable White	13	52	35	0,10	0,07	0,40	0,26	10	6	
1010 Sable	11	41	48	0,10	0,07	0,43	0,27	7	4	
0707 Pearl	11	38	51	0,10	0,07	0,44	0,27	9	7	
0201 White Grey	9	44	47	0,08	0,06	0,42	0,27	7	4	
0701 Pearl Grey	8	29	63	0,09	0,06	0,46	0,28	6	3	
0108 Grey Orange	7	31	62	0,08	0,06	0,46	0,28	4	1	
0109 Grey Mandarin	8	28	64	0,09	0,07	0,47	0,28	4	1	
0103 Grey Turquoise	7	29	64	0,08	0,06	0,47	0,28	4	1	
0150 Grey Green	8	26	66	0,09	0,07	0,48	0,28	4	1	
0110 Grey Sable	7	29	64	0,08	0,06	0,47	0,28	4	2	
0101 Grey	5	21	74	0,07	0,06	0,49	0,28	3	1	
3030 Charcoal	3	7	90	0,07	0,06	0,53	0,30	3	0	

gv = 0.59: solar factor of standard glazing, low-emission 4/16/4 double glazing filled with Argon.

gv = 0.32: solar factor of standard glazing, reflecting low-emission 4/16/4 double glazing filled with Argon.

Samples tested by the calculation methods laid down in standards EN 13363-1 "Solar protection devices combined with glazing –

calculation of solar and light transmittance – Part 1: simplified method" and EN 410 "Glass in building – Determination of luminous and solar characteristics of glazing".

Tvdifh* Data available on request.

Thermal and optical factors in the American standard Ashrae 74-73

Openness factor (Co) OF 3%	Thermal factors							Optical factors		
	Ts	Fabric		As	Fabric + glazing				Tv	Tvndif
		Rs			1/4" Cl. Sc (Fc) external blind	1/4" H.A.	1/4" Cl. Sc (Fc) internal blind	1/4" H.A.		
Colours										
0202 White	17	64	19	0.20	0.18	0.35	0.33	15	Not applied in the American standard	
0205 White Canary	18	61	21	0.21	0.19	0.37	0.34	15		
0220 White Linen	15	58	27	0.19	0.17	0.38	0.34	13	-	
0207 White Pearl	12	49	39	0.17	0.16	0.43	0.37	10	-	
0720 Pearl Linen	12	41	47	0.18	0.17	0.49	0.40	10	-	
1002 Sable White	12	49	39	0.17	0.16	0.43	0.37	9	-	
1010 Sable	9	40	51	0.15	0.14	0.49	0.40	7	-	
0707 Pearl	10	35	45	0.17	0.16	0.52	0.42	9	-	
0201 White Grey	8	40	52	0.14	0.14	0.48	0.40	7	-	
0701 Pearl Grey	7	26	67	0.15	0.14	0.57	0.44	6	-	
0108 Grey Orange	6	32	62	0.13	0.13	0.53	0.42	5	-	
0109 Grey Mandarin	7	28	65	0.15	0.14	0.56	0.43	5	-	
0103 Grey Turquoise	6	25	69	0.14	0.14	0.57	0.44	5	-	
0150 Grey Green	6	22	72	0.14	0.14	0.59	0.45	5	-	
1001 Sable Grey	6	30	64	0.14	0.13	0.54	0.43	6	-	
0110 Grey Sable	6	27	67	0.14	0.13	0.56	0.44	5	-	
0101 Grey	4	19	77	0.13	0.13	0.60	0.46	4	-	
1006 Sable Bronze	5	23	72	0.13	0.13	0.58	0.45	6	-	
3001 Charcoal Grey	3	11	86	0.13	0.13	0.65	0.48	4	-	
3006 Charcoal Bronze	3	7	90	0.13	0.13	0.67	0.50	4	-	
3030 Charcoal	2	6	92	0.13	0.12	0.68	0.50	4	-	

1/4" Cl: clear 1/4" (6mm) glazing.

1/4" H.A.: heat absorbing 1/4" (6mm) glazing.

Samples tested by the ASHRAE 74-73 standard "Method of measuring solar-optical properties of materials".