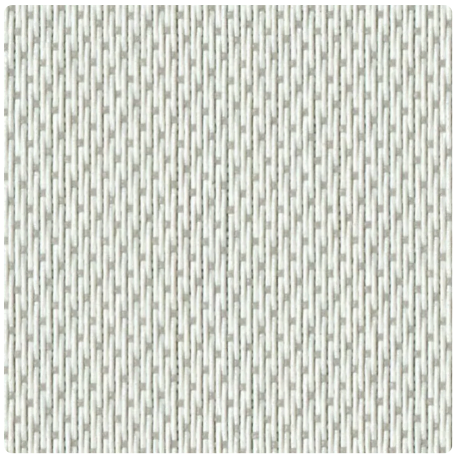
MERMET

HIGH PERFORMANCE

OPTIMAL 1

Double-sided pattern for an excellent glare control

COLOUR 00020007 White Pearl (Side B - White)



WIDTH(S)	250, 320 cm
DENSITY	1%

VISUAL COMFORT - WHITE PEARL (SIDE B - WHITE)

Glare control	2
View through	1
Privacy	2
Daylight	1

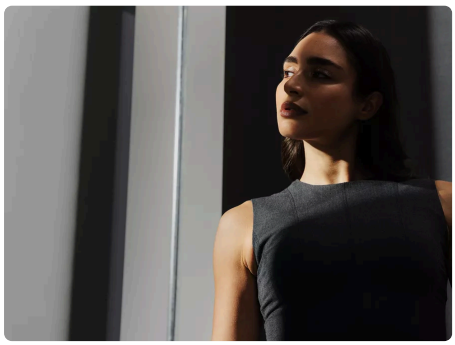
THERMAL COMFORT WITH GLAZING F

Class interior	2

THERMAL AND VISUAL PROPERTIES

Solar Reflectance Rs	60,2%
Solar Transmittance Ts	11,8%
Interior g-tot - Glazing F	0,317
Visual Transmittance Tv	0,103
Diffuse Visual Transmittance Tvn-dif	0,088
Direct Visual Transmittance Tvn-n	0,015

ABOUT THIS RANGE



Unlock augmented features with our cutting-edge fabrics, delivering high added value and best-in-class performance for glare control, temperature management or acoustical comfort.

OPTIMAL 1

- Optimal balance between visual and thermal performance thanks to its double-sided pattern
- Dark-coloured side for optimum glare control
- Reflective white side to allow maximum heat protection
- 2 other densities for tailored solar shading based on building orientation
- Extra wide width (320 cm)

TECHNICAL DATA

GENERAL FABRIC PROPERTIES

	Average value	Standard
Weighted composition	36% Fibreglass - 64% PVC	
Weaving pattern	Satin	
Width(s)	250, 320 cm	
Roll length (nominal)	Rolls of 33 lm	
Surface mass (weight)	450 g/m² ± 5%	ISO 2286-2
Thickness	0.61 mm ± 5%	ISO 2286-3
Colour fastness to artificial light (scale of 8)	≥ 7/8 (white not graded)	ISO 105 B02
Acoustic properties (αw)	0.3	ISO 10534-2

MECHANICAL PROPERTIES

	Average value	Standard
Breaking strength - Warp	>180 daN/5 cm	ISO 1421
Breaking strength - Weft	>140 daN/5 cm	ISO 1421
Elongation at break - Warp	<5%	ISO 1421
Elongation at break - Weft	<5%	ISO 1421
Tear strength - Warp	≥6 daN	ISO 4674-1 method 2
Tear strength - Weft	≥6 daN	ISO 4674-1 method 2

FIRE CERTIFICATES

		Standard
European Union - Spain	Class 1	EN 13773
France	M1	NF P 92-507
Germany	B1	DIN 4102-1
Italy	Classe Uno	UNI 9177
United States	FR	NFPA 701

THERMAL AND VISUAL PROPERTIES

Thermal properties		
Solar Transmittance Ts (%)	11,8	
Solar Reflectance Rs (%)	60,2	
Solar Absorptance As (%)	28,0	
Visual properties		
Direct Visual Transmittance Tvn-n	0,015	
Diffuse Visual Transmittance Tvn-dif	0,088	
Diffuse Hemispherical Transmittance Tvdif-h	0,090	
Visual Transmittance Tv	0,103	
Daylight	1	
Glare control	2	
Privacy	2	
View through	1	
UV Protection (Suv Class)	4	
Thermal factors	Average value	Class
Gtot Glazing F	0,317	2
Gtot Glazing G	0,144	3
Gtot Glazing H	0,279	2

HEALTH, SAFETY AND OTHER PROPERTIES

5 Warranty

Printable

Fire retardant

Made in EU

Greenguard Gold