

Multi-functional blinds for healthy environment!



Antibacterial



Deodorization



UV Protection



Mite Prevention



What is Green Guard?

US Certification on Eco-friendly product for Air Quality

- UL: Environmental assessment institute of U.S Standards System
- This Certification offers strict standards on the method, examination, sampling
- Rigorous standard on harmful effects on the human body
- GREENGUARD GOLD Certification is acceptable for use in schools and healthcare facilities
- Use GREENGUARD product and save the environment!

Acquired GREENGUARD Certification by UL U.S – international safety standard certification institution



UL U.S was founded in 2001 for protecting human health and quality of life from chemical material exposure & Indoor Air Quality.

Our Bio collection products acquired GREENGUARD Certification.

What is Green Guard?

Environmental Evaluation Research Institute for UL Certification of the US

It is a global safety certification company that has been trusted across the world, and offers certification by applying strict criteria for all products that can affect indoor air quality.

Eco-friendly certification for indoor air quality

It is considerably difficult to obtain this certification due to strict criteria in test methods and criteria, sampling and the number of tests. Therefore, a product that has obtained this certification is an eco-friendly product so it is a criterion for purchase.

Strict criteria through consideration of harmfulness for humans

Gold certification covers safety for children and respiratory patients sensitive to environments, and certified products are proper for use even in schools and medical facilities.

Possible environment protection just by using Greenguard certified products

It is international certification that can be achieved only if all manufacturing processes are eco-friendly.





GREENGUARD Certification

GREENGUARD certification makes you feel more comfortable



Acquired GREENGUARD Certification by UL
U.S – international safety standard certification institution

It's the product recommended for people who don't use curtains
because of frequent allergic reactions, weak skin, and weak respiratory
system.

FDA Antibacterial fibers

Multi-functional Blinds for Healthy Environment! ATB-UV+



A future generation of antibacterial textile, ATB-UV+ is cutting-edge
textile which provide healthy environment by anti-bacterial functionality
of 99.9% by silver.



Antibacterial



Deodorization



UV Protection



Mite Prevention

Far infrared ray

Bio Product plus far-infrared health



Quality certification designated
company of Korea Far Infrared
Association

Deodorization and humidity control effects have been added through
functional materials emitting far infrared rays.

FAR INFRARED RADIATION RATE 89,3%

Thermal
action

Antibacterial
action

Blood
circulation

Humidity
control

Excellent
deodorizing
power



Far infrared ray



Antibacterial



Deodorization



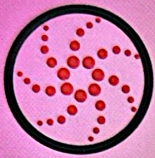
UV Protection



Mite Prevention

FAR INFRARED RAY

Health is added to Bio Blinds!



Far infrared ray



Antibacterial



Deodorization



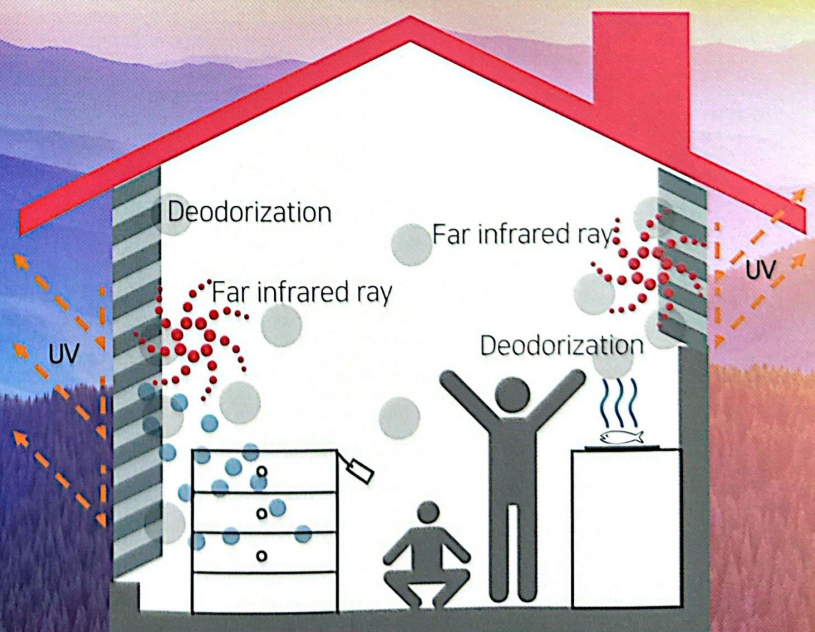
UV Protection



Mite Prevention

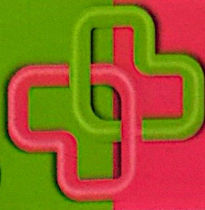
FAR INFRARED RAY

It is an infrared ray with a wavelength of $25\mu\text{m}$ or more. It is invisible to human eyes because it has longer wavelengths than visible light. It has a greater thermal action and strong penetration power. In addition, it shows a strong resonance and resonant action to organic compound molecules. Based on these properties, it has been widely applied to various industries and medical fields.



FAR INFRARED RAY Health is added to Bio Blinds!

BIO
COLLECTION



Deodorization and humidity control effects have been added through functional materials emitting far infrared rays.

Far infrared
radiation rate
89.3%

Far infrared rays of
yellow soil radiation rate
93%

You can protect health of your family with
Magic far infrared ray effects using far infrared
functional yarns for bio products.

Efficacy of Far-infrared rays

- Have the most beneficial wavelengths for the human body and penetrate into our skin deeply, making our body warm and relaxed.
- Helpful for eliminating bacteria that are reasons of various diseases.
- Useful in expanding capillary blood vessels and helping blood circulation.
- Possible to promote metabolism, and prevent aging, chronic fatigue and adult diseases by activating cellular tissues.
- Useful in promoting perspiration, relieving pains, removing heavy metals, promoting deep sleep, deodorizing, preventing mold growth, dehumidifying, and purifying air.

Thermal
action

Antibacterial
action

Blood
circulation

Humidity
control

Excellent
deodorizing
power

■ TEST REPORT ■

01. Colorfastness to light: (KS K ISO 105 B02: 2014, Xenon-Arc-Lamp, Blue Scale): Grade

	#1
Blue Scale 5	Above 5
Blue Scale 6	Above 6

02. Efficiency of Deodorization(Fiti ftm-5-2: 2004) : %

	#1
Ammonia	29.0

Note) • Sample : 10cm×10cm

• Gas Bag Size : 5L

• Amount of gas packed : 3L

• Elapsed Time : After 2 Hours

• Initial Concentration : Ammonia(100ppm)

• Deodorization efficiency(%) = ((Cb - Cs/Cb) × 100

- Cb : Blank, Concentration of the test gas remained in the gas bag after 2 hours

- Cs : sample, Concentration of the test gas remained in the gas bag after 2 hours

03. Antibacterial activity of textiles(ks k 0693: 2016): cells/mL, Bacteriostatic reduction rate %

		BLANK	#1
Bacteria 1	At beginning	1.8×10^4	—
	after 18 h	8.7×10^5	1.8×10^4
	Bacteriostatic Reduction Rate	—	99.8
Bacteria 2	At beginning	1.8×10^4	—
	after 18 h	2.7×10^7	2.5×10^5
	Bacteriostatic Reduction Rate	—	99.1

Note) Standard Fabric : Cotton

Nonionic surfactant agents : TWEEN 80, 0.05%

Test bacteria: Bacteria 1—Staphylococcus aureus ATCC 6538. / Bacteria 2—Klebsiella pneumoniae ATCC 4352.

KIFA 사단법인 한국원격외선협회
부설 한국원격외선응용평가연구원

시험성적서

발급번호 : KFI-482
제출처 : 신 포 파 (종파 주식회사)
주 소 : 김포광역시 서구 장항로23길 13(가동동)
접수일자 : 2020년 5월 29일
시험명 : 방취효과 측정시험 (비대)

시험결과

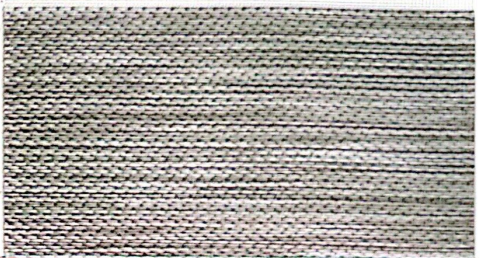
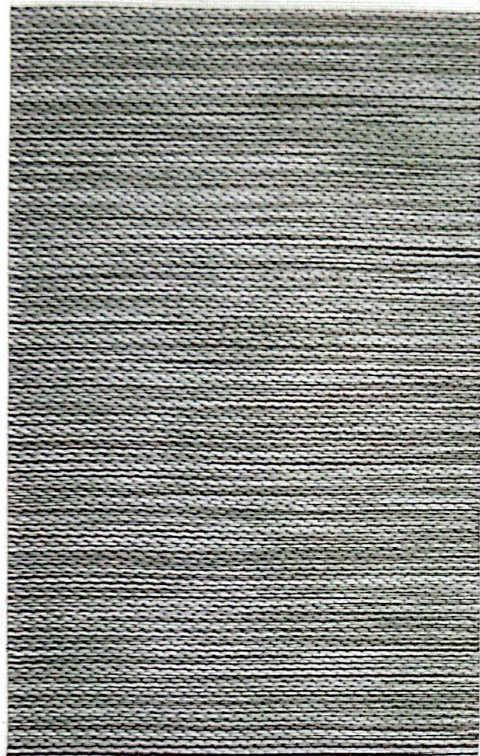
방취율 (5-20%)	방취율 (50-100%)
0.003	3.4441%

1) 시험목적: 방취효과 측정 시험 결과 대조군과 시험군을 비교하여 방취효과를 평가한다.
2) 시험방법: 방취효과 측정 시험 결과 대조군과 시험군을 비교하여 방취효과를 평가한다.
3) 시험결과: 방취효과 측정 시험 결과 대조군과 시험군을 비교하여 방취효과를 평가한다.

한국원격외선응용평가연구원장

Korea Far Infrared association test report

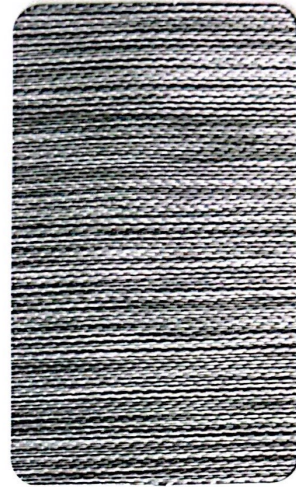
MARS FAR INFRARED RAY



IM 5814 LIGHT BEIGE



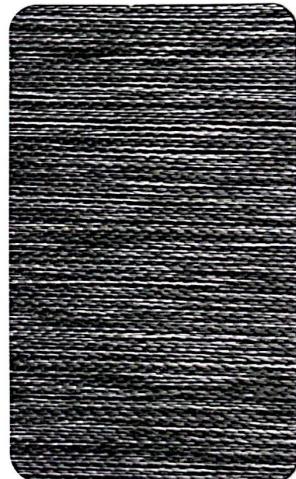
IM 5811 WHITE



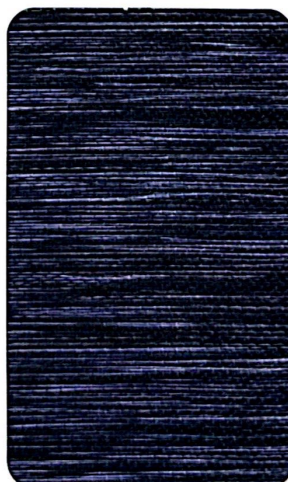
IM 5815 GREY



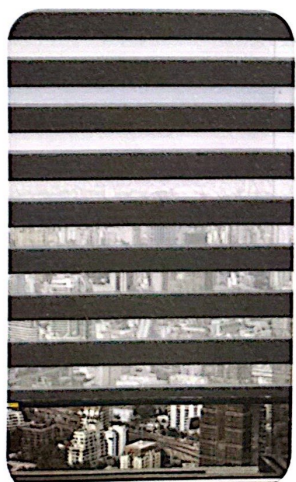
IM 5816 OLIVE GOLD



IM 5819 CHARCOAL



IM 5820 NAVY



MARS

FAR INFRARED RAY

Technical Data



• Composition	Polyester 100%
• Thickness	0.49mm ± 5%
• Weight	188.7g / m ² ± 5%
• Width	280cm
• Tensile strength	Warp 2600dan
• Packing	40m/roll
• Fastness to light	Above 6 grade



친환경인증획득

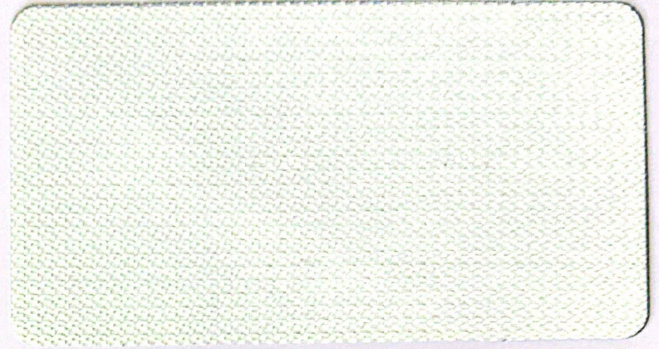


원적외선인증획득



A vertical rectangular panel with a dark, textured top half and a lighter, textured bottom half, separated by a horizontal line. The texture appears to be a fine, woven fabric or a similar material. The top half is a dark charcoal or black, while the bottom half is a light gray or off-white. The horizontal line is a thin, dark border separating the two sections.

IR 5904 LIGHT GREY



A blank, textured, light gray rectangular area, possibly a book cover or endpaper. The texture is a fine, repeating pattern of small, dark, irregular shapes on a lighter background, giving it a woven or fabric-like appearance. The edges are slightly rounded.



IR 5909 BLUE



RAY

FAR INFRARED RAY

Technical Data



• Composition	Polyester 100%
• Thickness	0,38mm±5%
• Weight	129.1g / m ² ±5%
• Width	280cm
• Tensile strength	Warp 1600dan
• Packing	50m/roll
• Fastness to light	Above 6 grade



친환경인증획득



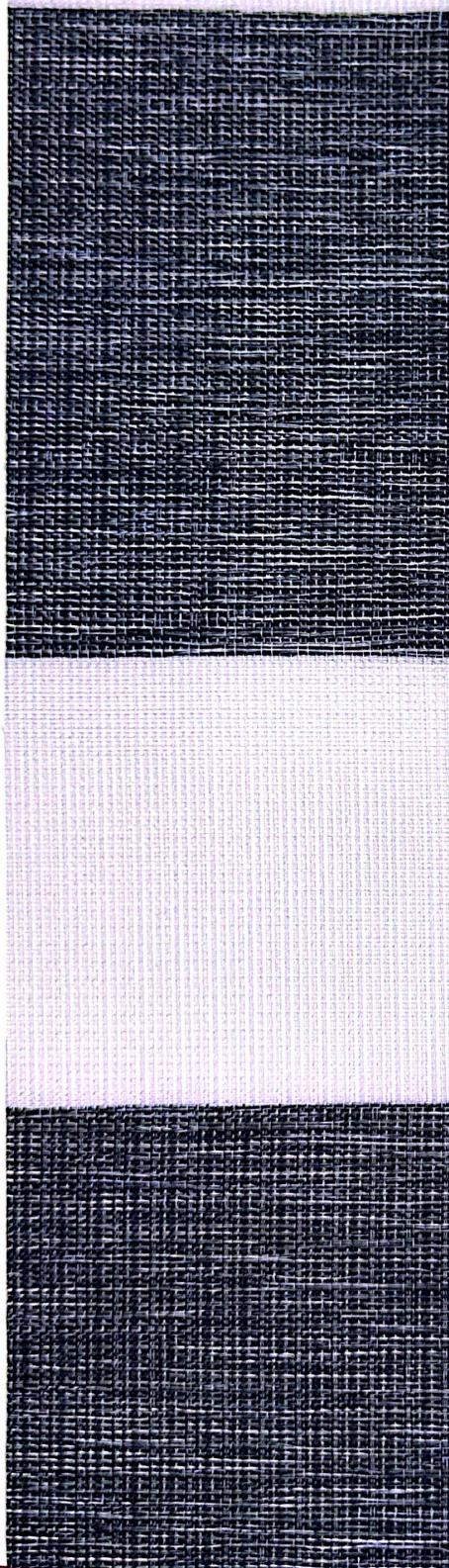
한국원적외선협회

원적외선인증획득



원적외선 항균 탈취 UV차단 진드기방지
Far infrared ray Antibacterial Deodorization UV Protection Mite Prevention

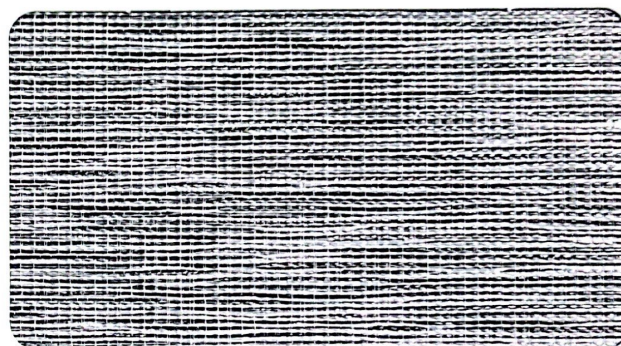
GRACE FAR INFRARED RAY



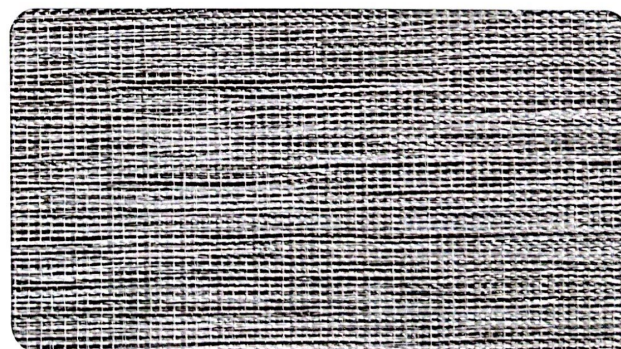
IG 5931 INK BLUE



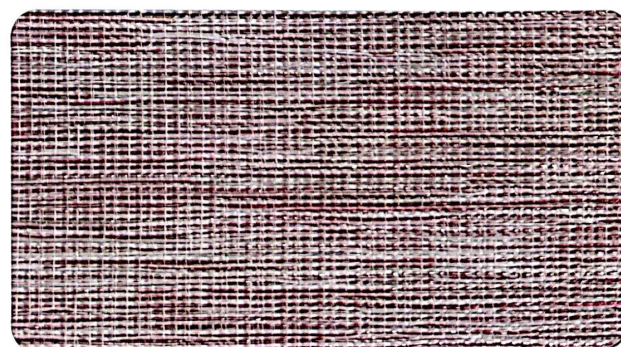
IG 5923 BEIGE



IG 5925 GREY



IG 5926 LIGHT BROWN



IG 5929 WINE



GRACE FAR INFRARED RAY

Technical Data



• Composition	Polyester 100%
• Thickness	0.40mm±5%
• Weight	122.82g /m² ±5%
• Width	280cm
• Tensile strength	Warp 1600dan
• Packing	50m/roll
• Fastness to light	Above 4 grade



친환경인증획득



원적외선인증획득



원적외선



항균



탈취



UV차단

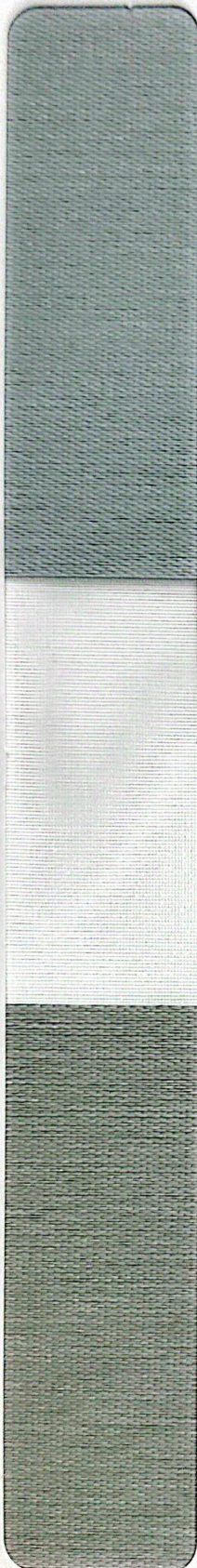


진드기방지

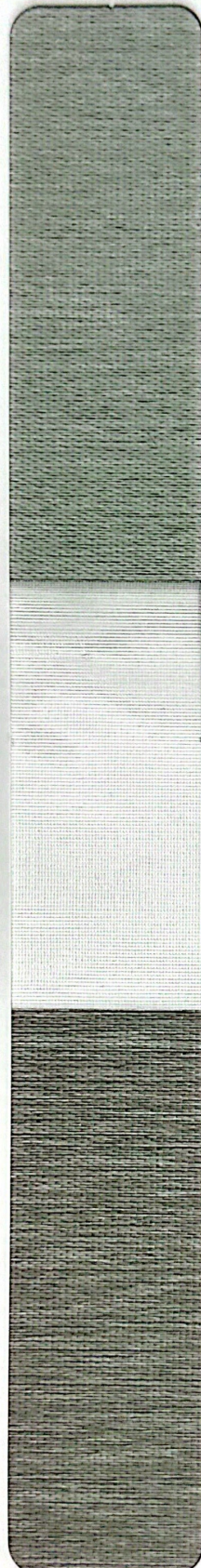
Far infrared ray Antibacterial Deodorization UV Protection Mite Prevention

BIO ALICE

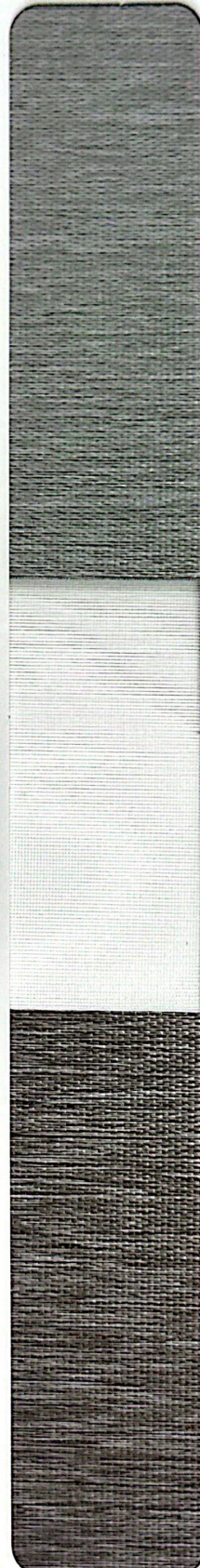
BLACK OUT



BA 4401



BA 4402



BA 4403



BA 4404

BIO ALICE

Technical Data



- Composition Polyester 100%
- Thickness 0.50mm $\pm$ 5%
- Weight 207.230g/m² $\pm$ 5%
- Width 280cm
- Tensile strength warp 2400dan / weft 1400dan
- Packing 40m/roll
- Elongation warp 24,6% / weft 12%
- Fastness to light Above 4 grade

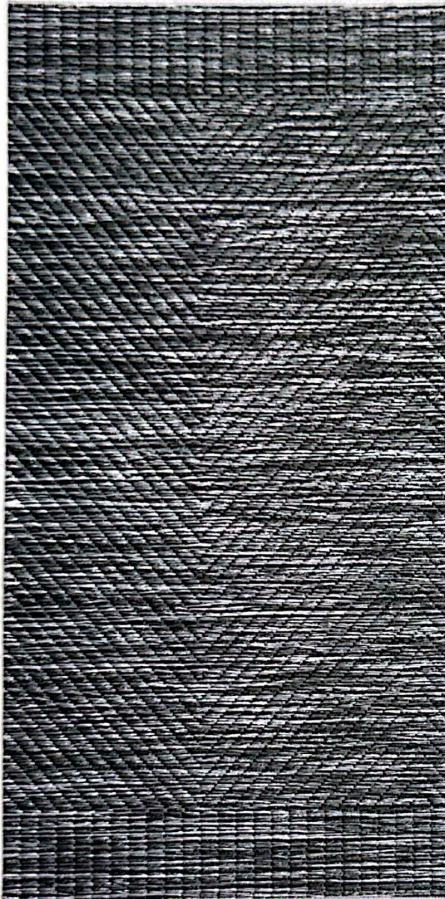
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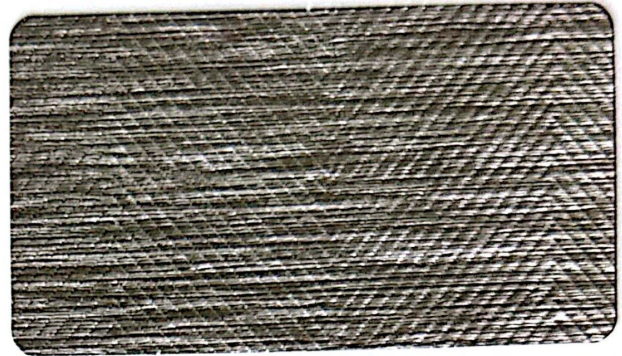
Antibacterial Deodorization UV Protection Mite Prevention

BIO ELDORA

BLACK OUT



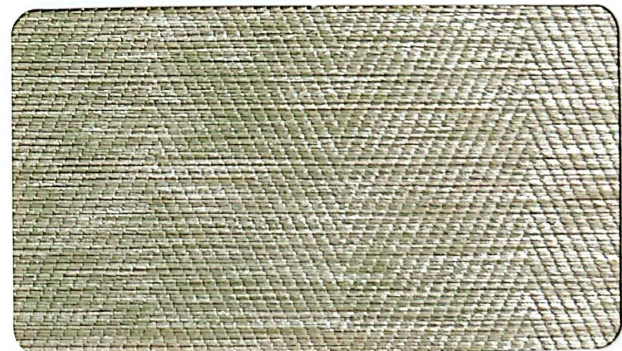
BE 4207 DARK GREY



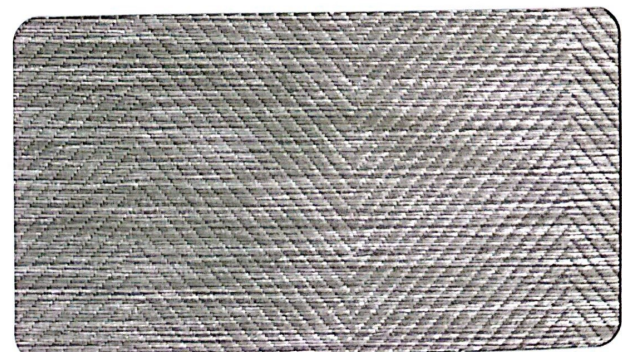
BE 4208 CHOCOLATE CHIP



BE 4210 BROWN



BE 4205 KHAKI



BE 4206 LIGHT GREY

BIO ELDORA

Technical Data



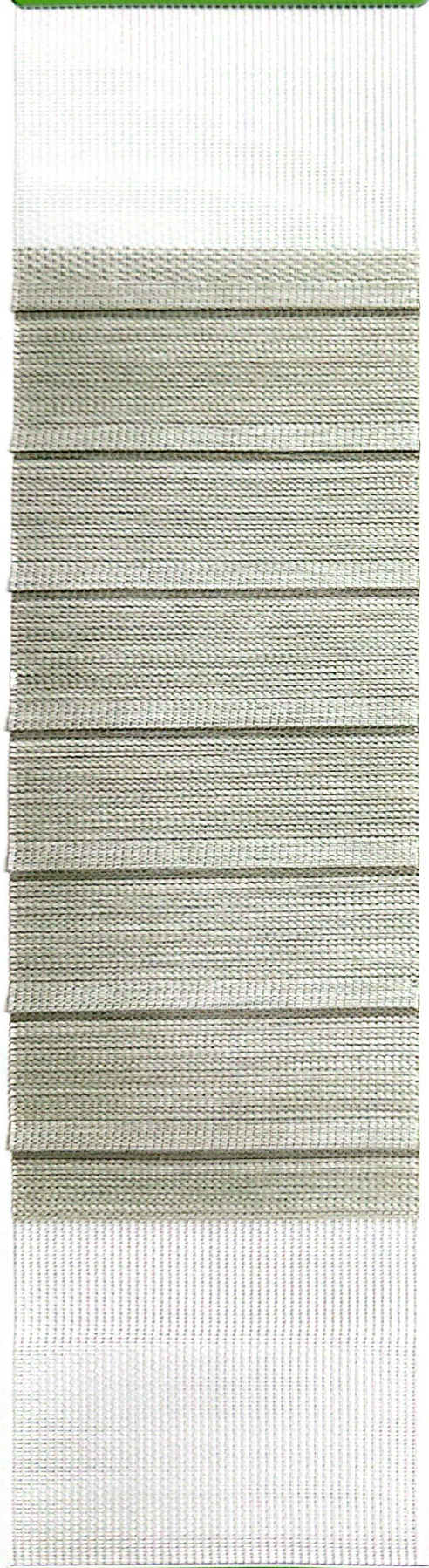
• Composition	Polyester 100%
• Thickness	0,58mm ± 5%
• Weight	349,8g/m² ± 5%
• Width	280cm
• Tensile strength	wett 2600dan
• Packing	40m/roll
• Elongation	wett 24,1%
• Fastness to light	Above 4 grade

BLACK OUT



Antibacterial Deodorization UV Protection Mite Prevention

BIO VIVIAN



BV 4902 MUSHROOM



BV 4903 GREY



BV 4905 KHAKI



BV 4906 OLIVE GOLD



BV 4907 INK BLACK

BIO VIVIAN

Technical Data

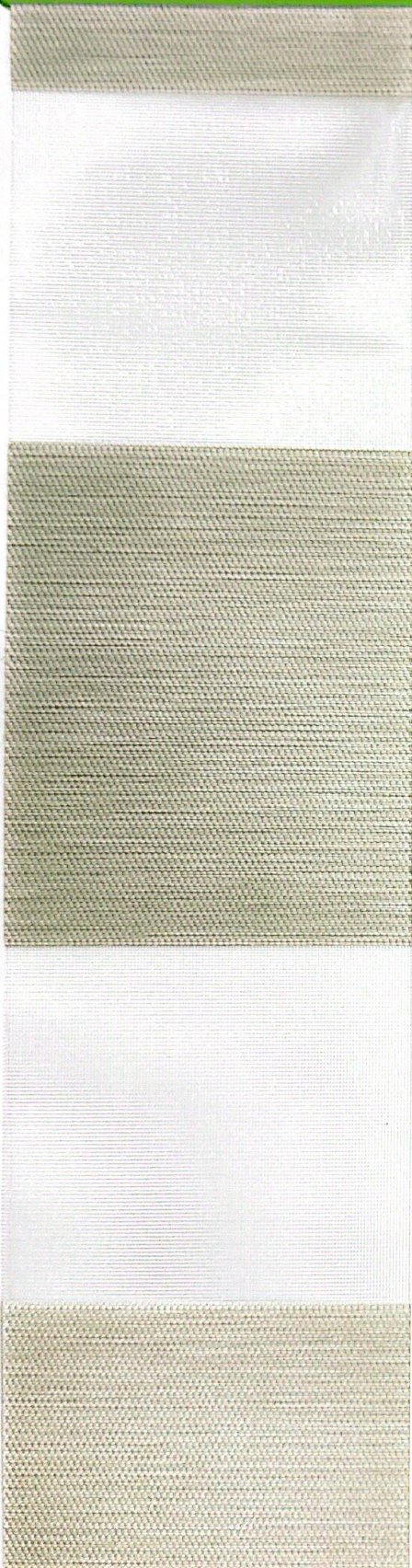


- Composition Polyester 100%
- Thickness 0,40mm $\pm$ 5%
- Weight 159,61g/m² $\pm$ 5%
- Width 280cm
- Tensile strength warp 209,5dan / weft 25,2dan
- Packing 50m/roll
- Elongation warp 23,1% / weft 11,1%
- Fastness to light Above 4 grade

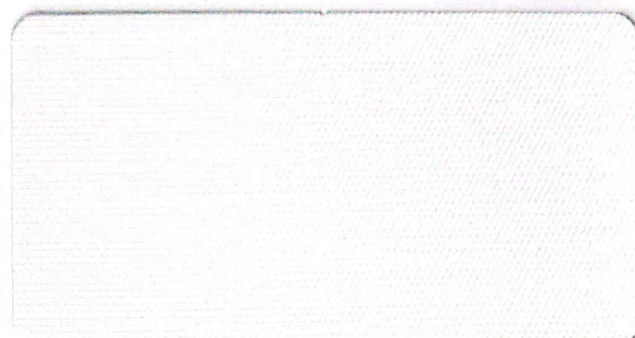


Antibacterial Deodorization UV Protection Mite Prevention

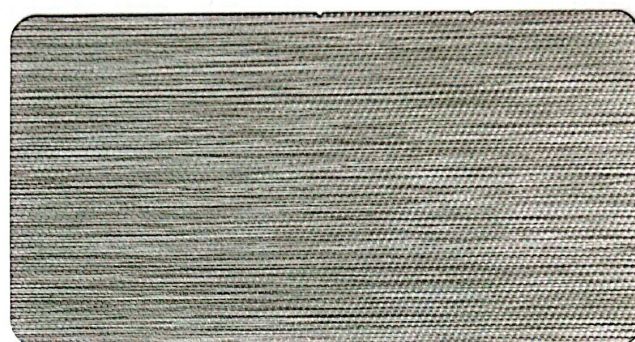
BIO CLEAN SHADE



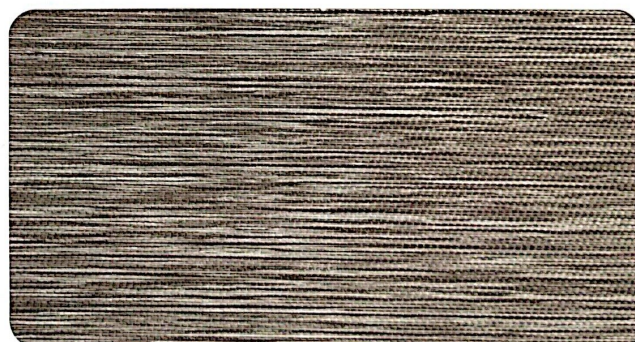
BS 4303 MUSHROOM



BS 4301 WHITE



BS 4305 LIGHT GREY



BS 4308 KHAKI



BS 4309 INK BLACK

BIO CLEAN SHADE

Technical Data



- Composition Polyester 100%
- Thickness 0.34mm $\pm$ 5%
- Weight 116.0g/m² $\pm$ 5%
- Width 280cm
- Tensile strength warp 1400dan / weft 2400dan
- Packing 50m/roll
- Elongation warp 11.7% / weft 12%
- Fastness to light Above 4 grade



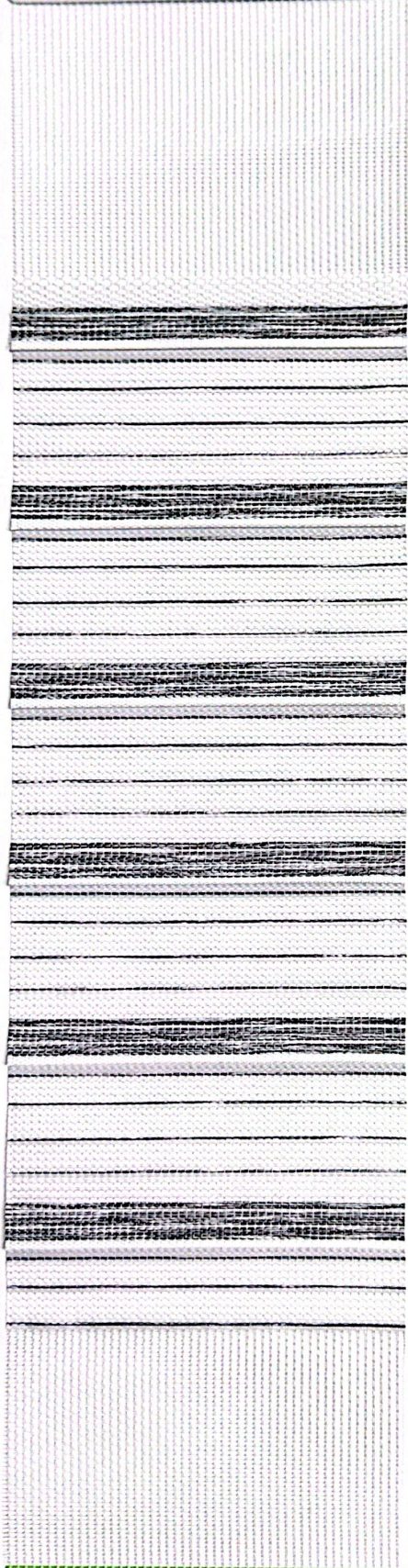
GREENGUARD

PRODUCT CERTIFIED FOR
LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818

GOLD

Antibacterial Deodorization UV Protection Mite Prevention

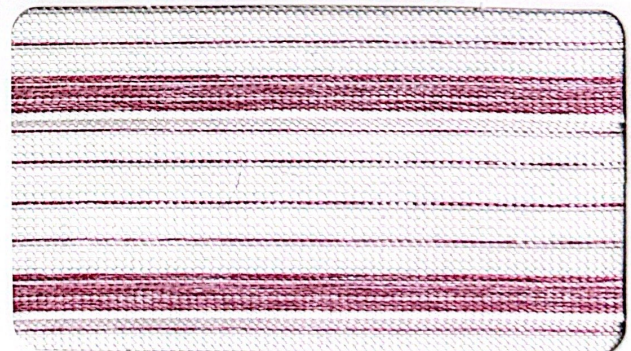
BIO VENUS



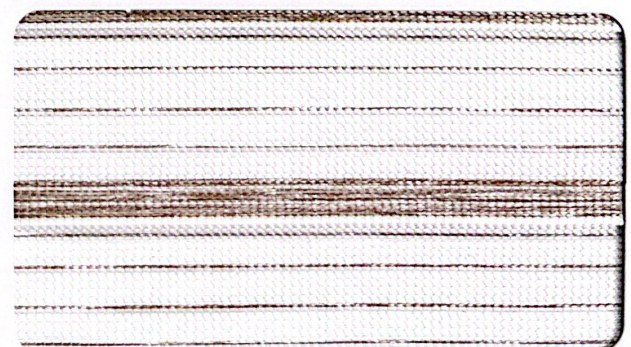
BN 4803 GREY



BN 4806 BLUE



BN 4807 WINE



BN 4808 BROWN

BN 4805 INK BLACK

BIO VENUS

Technical Data

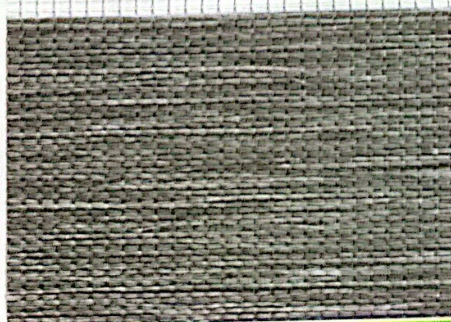
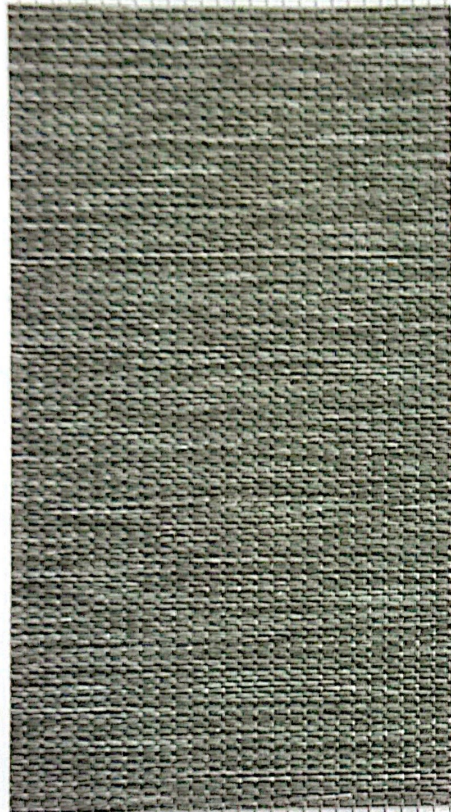


• Composition	Polyester 100%
• Thickness	0,39mm±5%
• Weight	116,0g /m²±5%
• Width	280cm
• Tensile strength	warp 1400dan
• Packing	50m/roll
• Fastness to light	Above 6 grade



Antibacterial Deodorization UV Protection Mite Prevention

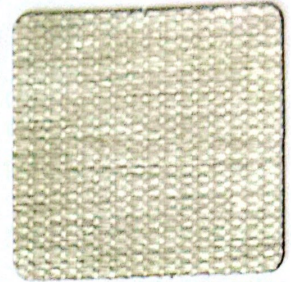
BIO SOPHIA



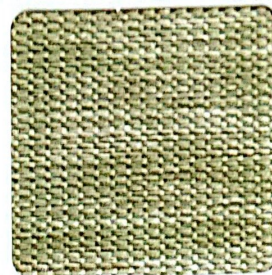
BS 4606 GREY



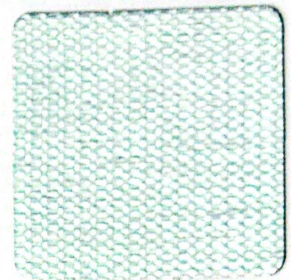
BS 4601 IVORY



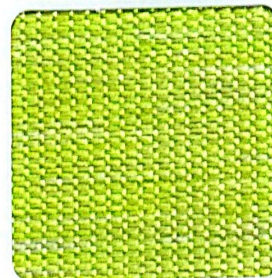
BS 4602 MUSHROOM



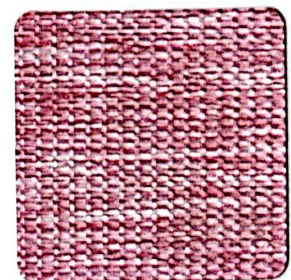
BS 4610 BEIGE



BS 4604 BLUE



BS 4613 LIGHT GREEN



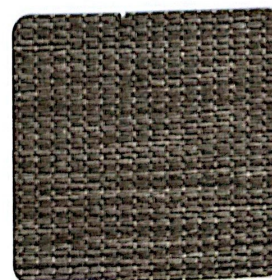
BS 4605 WINE



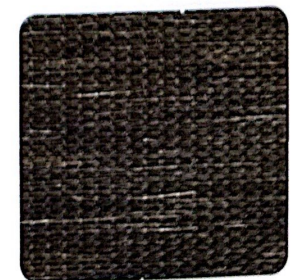
BS 4617 PURPLE



BS 4615 DARK BEIGE



BS 4607 KHAKI



BS 4618 WOOD



BIO SOPHIA

Technical Data



- Composition Polyester 100%
- Thickness 0.42mm $\pm$ 5%
- Weight 149.50g / m² $\pm$ 5%
- Width 280cm
- Tensile strength warp 2400dan / weft 1400dan
- Packing 50m/roll
- Elongation warp 24.6% / weft 12%
- Fastness to light Above 4 grade



Antibacterial

Deodorization

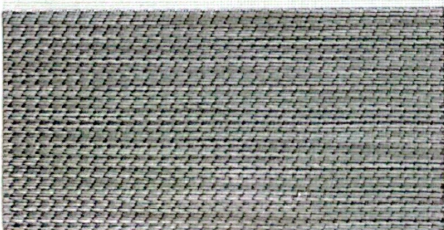
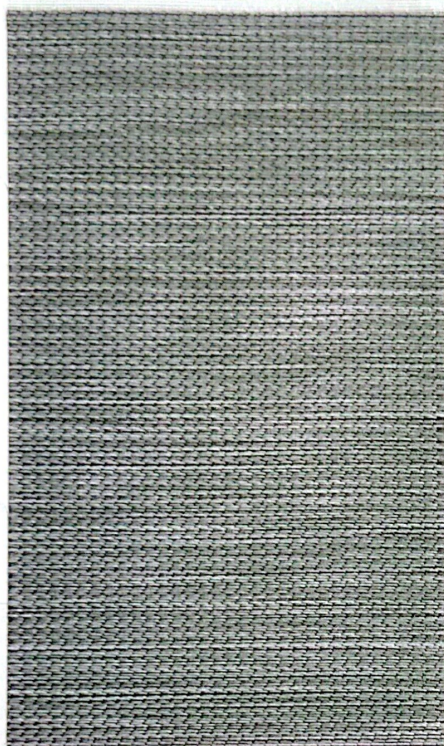
UV Protection

Mite Prevention

LAMIS MAGIC

FR

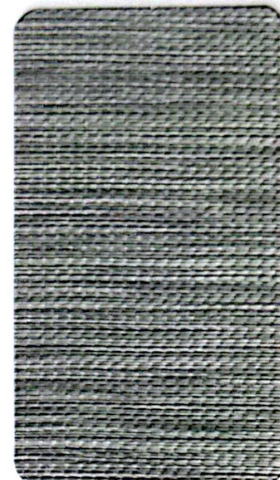
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LM 8102 LIGHT GREY



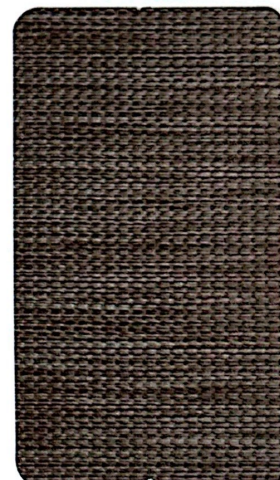
LM 8101 MUSHROOM



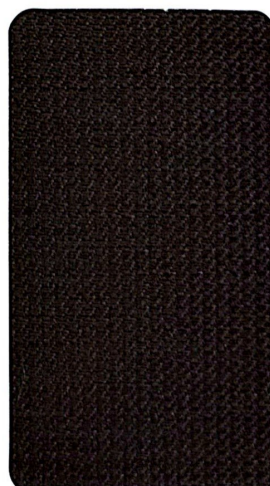
LM 8103 MEDIUM GREY



LM 8104 DARK GREY



LM 8105 WOOD



LM 8106 INK BLACK



LAMIS MAGIC

Technical Data

• Composition	Polyester 100%
• Thickness	0,47mm $\pm$ 5%
• Weight	140g /m ² $\pm$ 5%
• Width	280cm
• Tensile strength	Well 2300dan
• Packing	50m/roll
• Elongation	Well 32,5%
• Fastness to light	Above 4 grade



FR

BLACK OUT



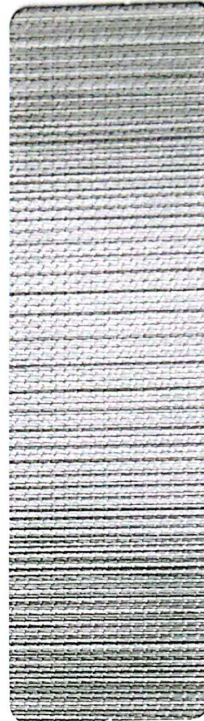
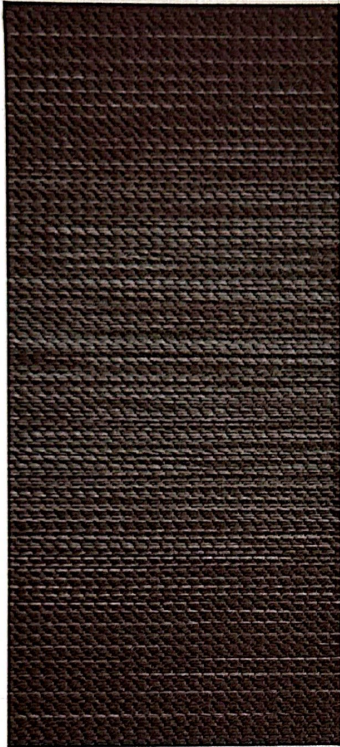
GREENGUARD

PRODUCT CERTIFIED FOR
LOW CHEMICAL EMISSIONS
ULCOM/CG
UL 2818

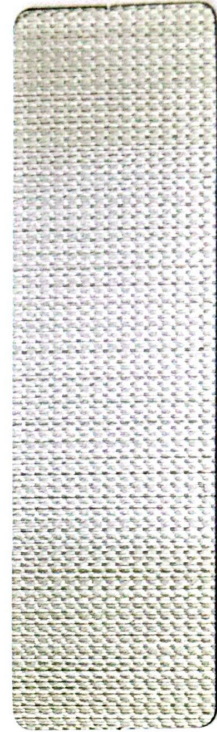
GOLD

SIERRA MAGIC

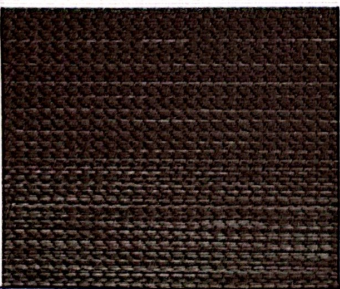
BLACK OUT



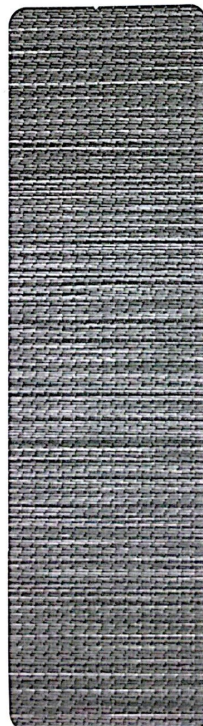
SM 7901 WHITE



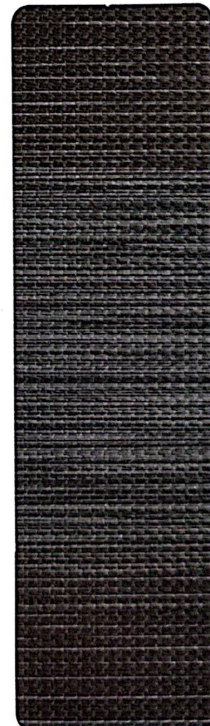
SM 7902 IVORY



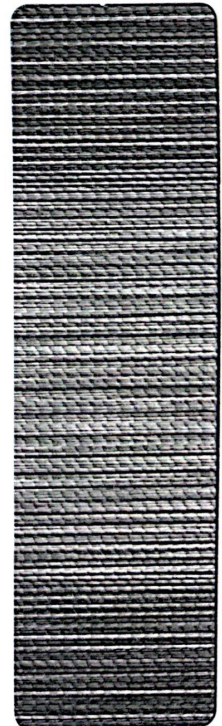
SM 7907 WOOD



SM 7905 DARK GREY



SM 7908 INK BLACK



SM 7906 CHARCOAL

SIERRA MAGIC

BLACK OUT

Technical Data



• Composition	Polyester 100%
• Thickness	0.46mm $\pm$ 5%
• Weight	173g /m ² $\pm$ 5%
• Width	280cm
• Tensile strength	Weit 2200dan
• Packing	50m/roll
• Elongation	Weit 30,3%
• Fastness to light	Above 4 grade

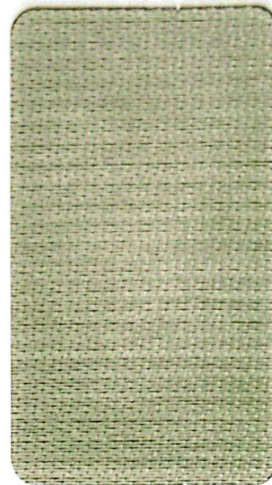
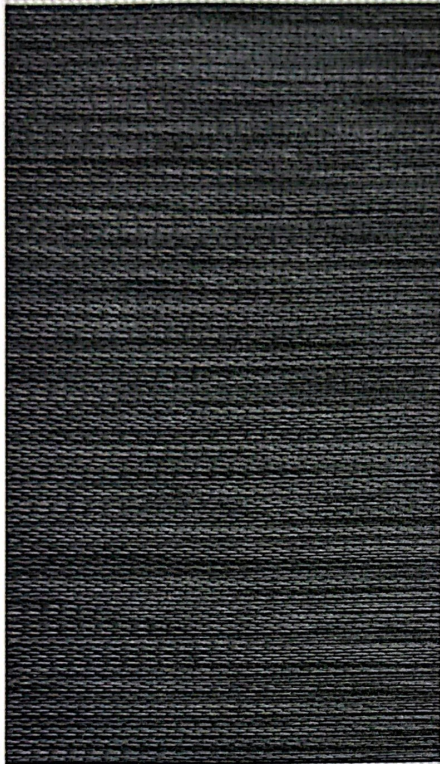


GREENGUARD

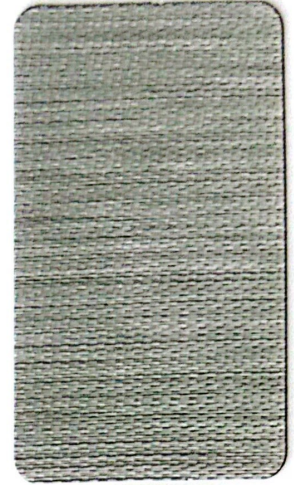
PRODUCT CERTIFIED FOR
LOW CHEMICAL EMISSIONS
UL COM/CG
UL 2818

GOLD

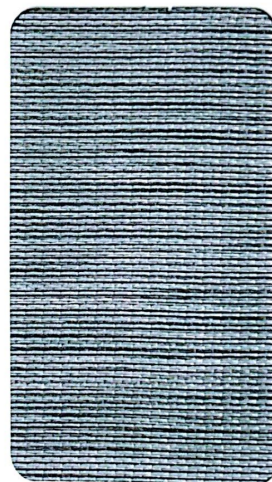
SEAGULL



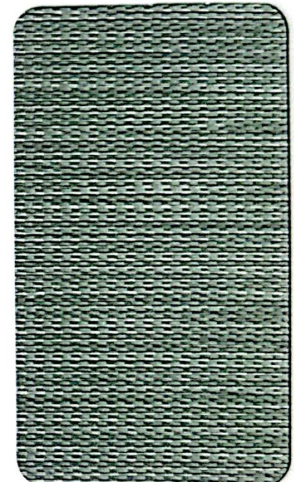
SG 7801 MUSHROOM



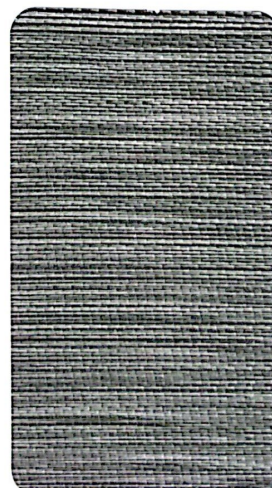
SG 7802 LIGHT GREY



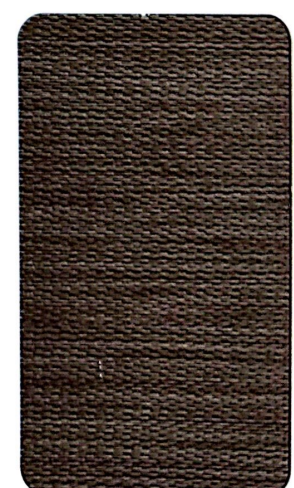
SG 7803 LIGHT BLUE



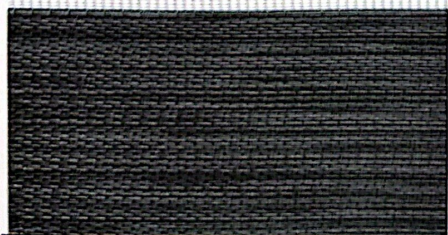
SG 7804 DARK GREEN



SG 7805 GREY



SG 7807 WOOD



SG 7806 CHARCOAL

SEAGULL

Technical Data



- Composition Polyester 100%
- Thickness 0.38mm $\pm 5\%$
- Weight 168.9g/m² $\pm 5\%$
- Width 320cm
- Tensile strength Well 2100dan
- Packing 40m/roll
- Fastness to light Above 6 grade

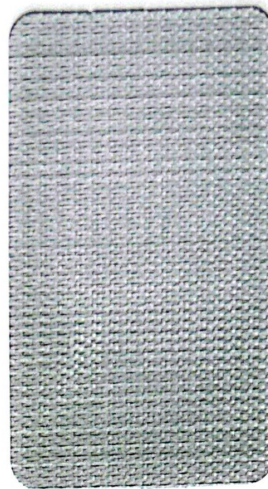


GREENGUARD

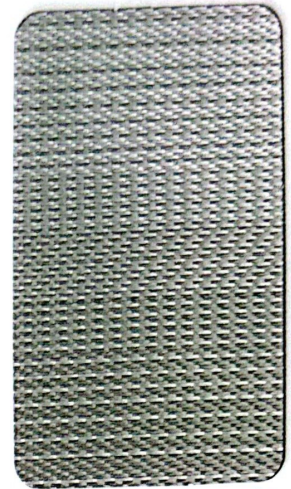
PRODUCT CERTIFIED FOR
LOW CHEMICAL EMISSIONS
UL COM/CG
UL 2818

GOLD

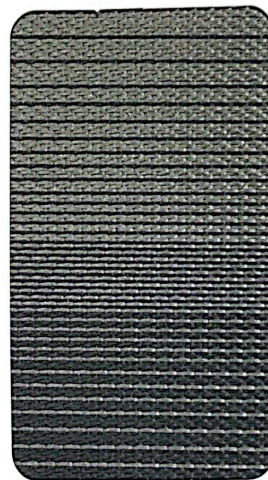
TOSCA



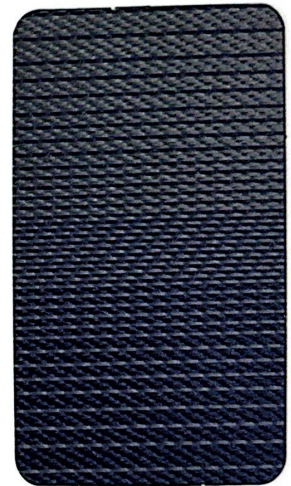
TO 7001 LIGHT GREY



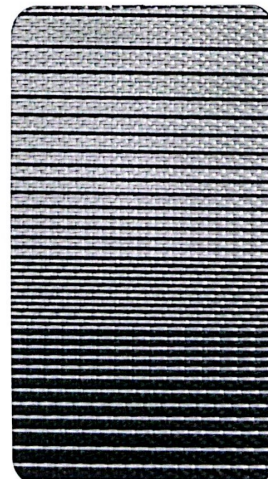
TO 7002 GREY



TO 7003 DARK GREY



TO 7005 NAVY



TO 7006 BLACK



TO 7004 BROWN

TOSCA

Technical Data



- Composition Polyester 100%
- Thickness 0,40mm $\pm 5\%$
- Weight 153,4g/m² $\pm 5\%$
- Width 320cm
- Tensile strength well 1800 N
- Packing 40m/roll
- Fastness to light Above 6 grade

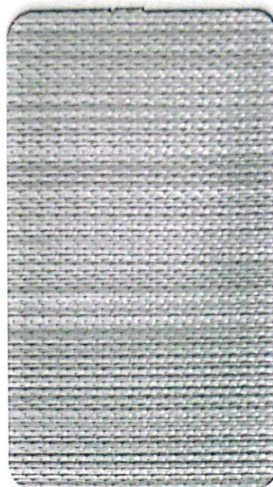


GREENGUARD

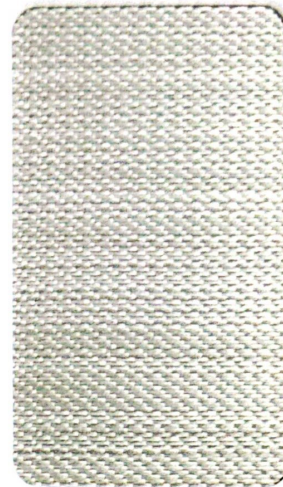
PRODUCT CERTIFIED FOR
LOW CHEMICAL EMISSIONS
UL.COM/CG
UL 2818

GOLD

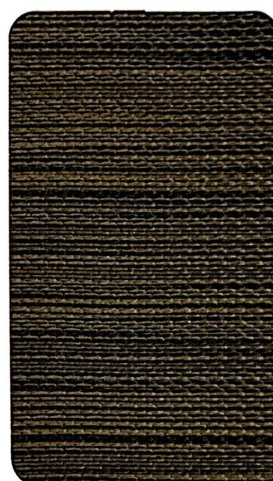
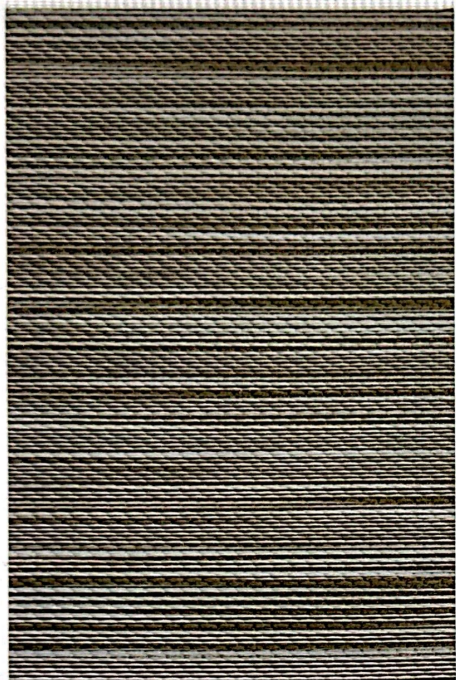
AIDA



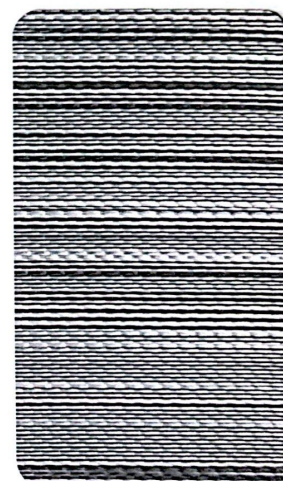
AI 8602 LIGHT GREY



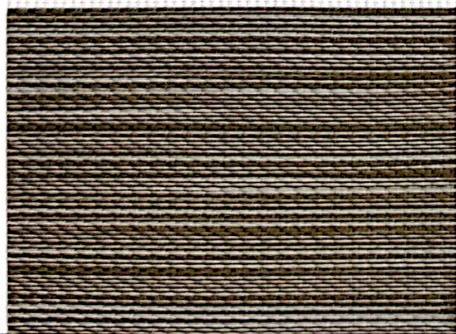
AI 8604 MUSHROOM



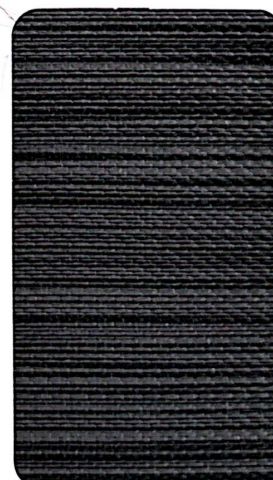
AI 8609 CHOCO



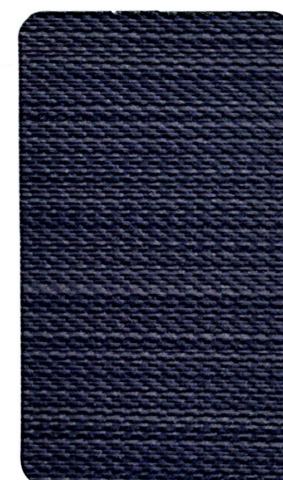
AI 8611 MEDIUM GREY



AI 8607 BROWN



AI 8614 CHARCOAL



AI 8615 DARK BLUE

AIDA

Technical Data



- Composition Polyester 100%
- Thickness 0.53mm $\pm 5\%$
- Weight 205.3g / $m^2 \pm 5\%$
- Width 320cm
- Tensile strength Weft 2600 N
- Packing 40m/roll
- Fastness to light Above 6 grade



GREENGUARD

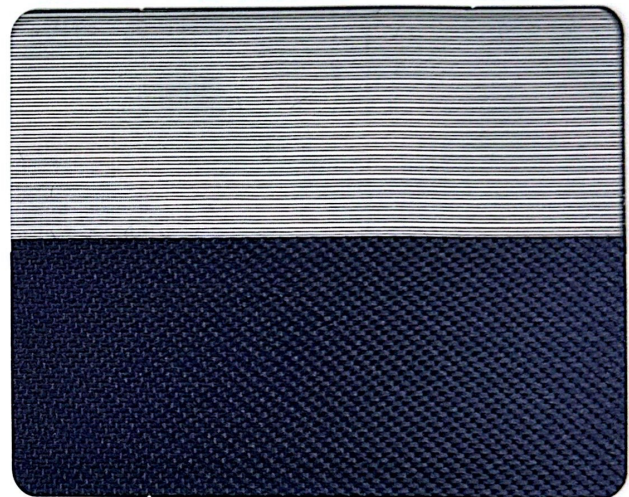
PRODUCT CERTIFIED FOR
LOW CHEMICAL EMISSIONS
UL.COM/CG
UL 2818

GOLD

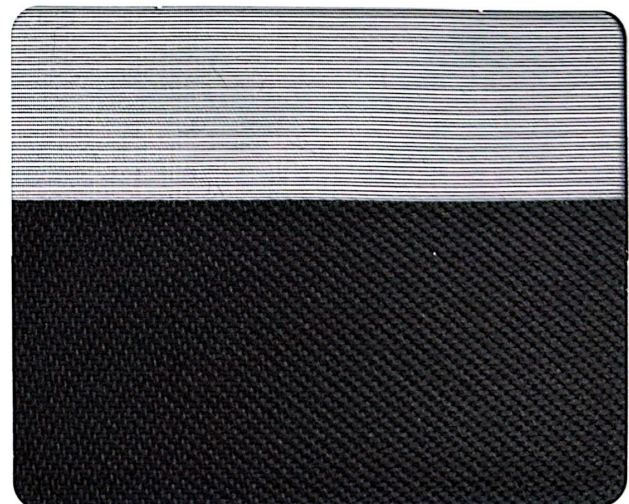
TONO



TN 6302 MUSHROOM



TN 6303 NAVY



TN 6304 BLACK

TN 6301 WHITE

TONO

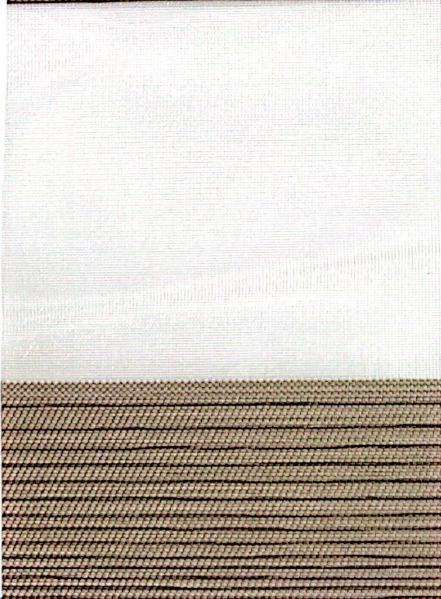
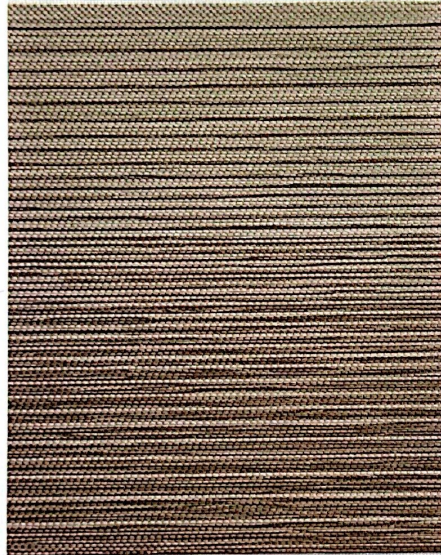
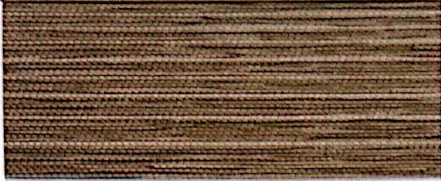
Technical Data



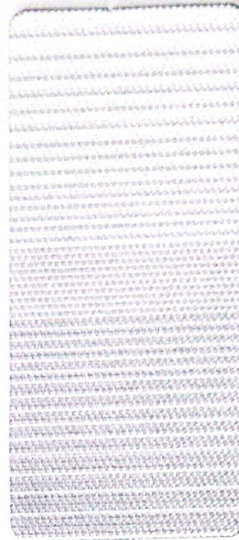
- Composition Polyester 100%
- Thickness 0,40mm $\pm$ 5%
- Weight 148,3g/m² $\pm$ 5%
- Width 280cm
- Tensile strength Welt 2600 N
- Packing 50m/roll
- Fastness to light Above 6 grade



RAINBOW MAGIC



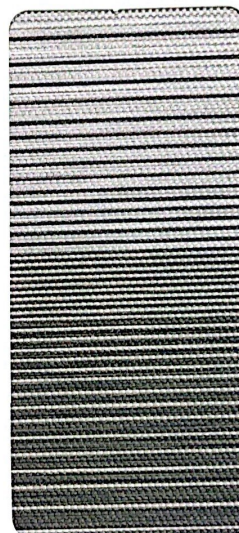
RM 4006 WOOD



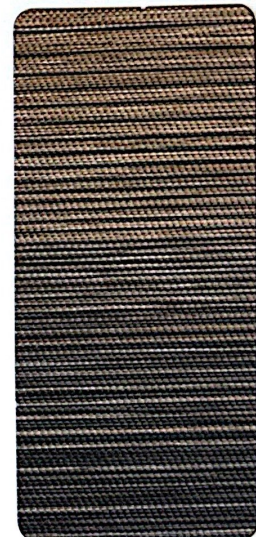
RM 4001 WHITE



RM 4002 IVORY



RM 4005 GREY



RM 4008 INK BLACK



RAINBOW MAGIC

Technical Data



- Composition Polyester 100%
- Thickness 0,31mm $\pm$ 5%
- Weight 109,5g / m² $\pm$ 5%
- Width 280cm
- Tensile strength Warp 98,1dan / Weft 1314,7dan
- Packing 50m/roll
- Elongation Warp 11,3% / Weft 22,6%
- Fastness to light Above 4 grade



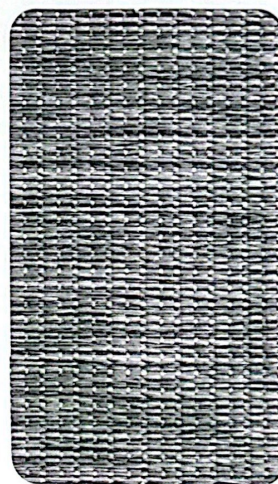
CELLO MAGIC



CM 701 IVORY



CM 703 BEIGE



CM 707 GREY



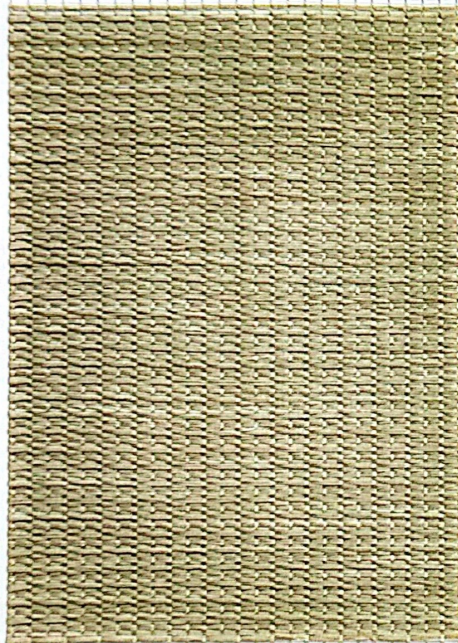
CM 708 BROWN



CM 710 WOOD



CM 711 INK BLACK



CM 702 MUSHROOM

CELLO MAGIC

Technical Data



- Composition Polyester 100%
- Thickness 0,60mm $\pm$ 5%
- Weight 140g / m² $\pm$ 5%
- Width 280cm
- Tensile strength Warp 253,0dan / Weft 225,2dan
- Packing 50m/roll
- Elongation Warp 23% / Weft 11,2%
- Fastness to light Above 4 grade

