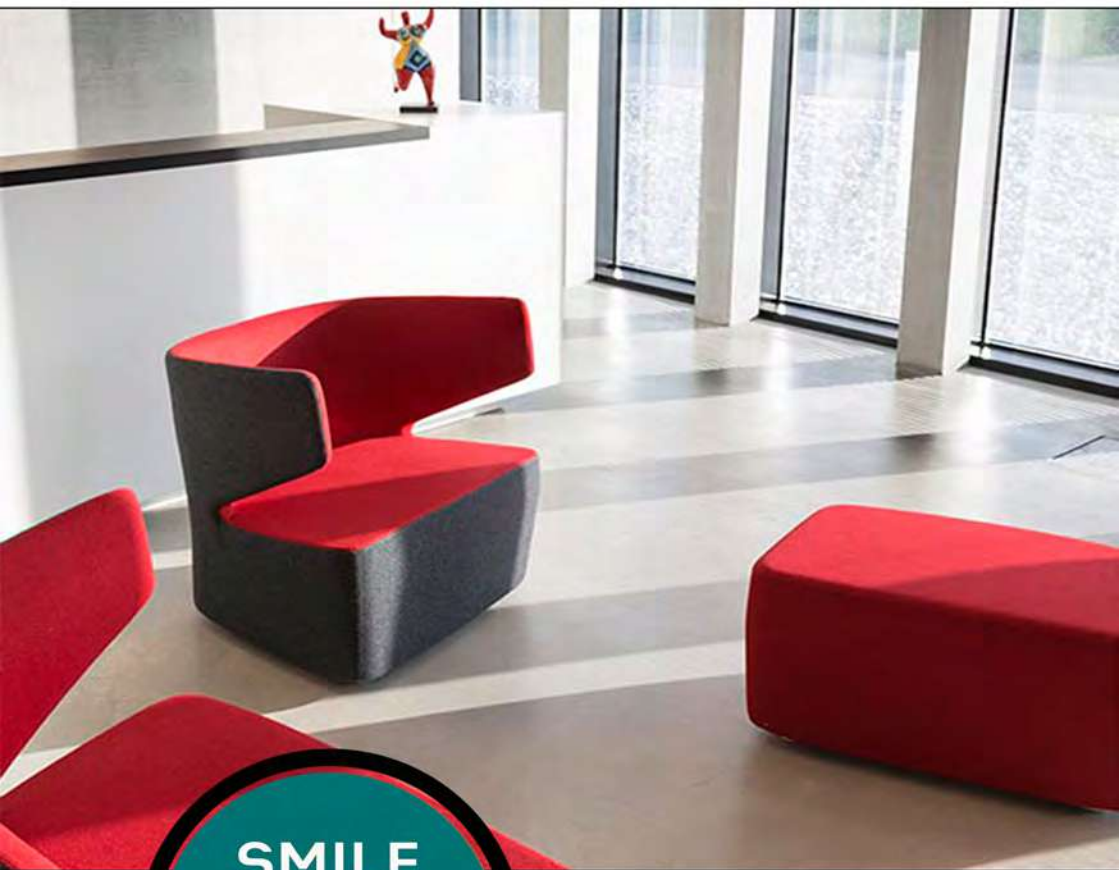




**SMILE
ECO
LEATHER**



TWINSNETWORK

PARAMETERS	UNITS	TEST METHOD	SPECIFICATION
TOTAL WEIGHT	G/M ²	ASTM-D-751-79	560 +L-50
COATING WEIGHT	G/M ²		460
FABRIC WEIGHT	G/M ²		100
FABRIC TYPE			100 % POLYESTER
THICKNESS	MM	ASTM-D-751	0.90+/- 0.10
WIDTH	CM	ASTM-D-751	138 - 140
TENSILE STRENGTH (N)	N	ASTM-D-751	
WARP			300
WEFT			150
ELONGATION AT BREAK	%	ASTM-D-751	
WARP			35
WEFT			150
ADHESION OF COATING	N/5 CM	ASTM-D-751	
WARP			20
WEFT			20
TEAR STRENGTH	N	ASTM-D-751	
WARP			25
WEFT			25
ABRASION RESISTANCE	CYCLES	BS 5690	50000
COLOR FASTNESS TO LIGHT	GREY SCALE	DIN 75202	≥ 4
COLOR FASTNESS TO RUBBING GREY SCALE		DIN EN ISO 105 - X12	
DRY	GREY SCALE		4
WET			4
FLAMMABILITY	MM / MIN	FMVSS 302	NA
CHEMICAL RESISTANCE		IS : 1259	NA
PROPERTY OF FOAM MATERIAL			NA
DURABILITY			NA
BIO COMPATIBILITY			NA

SMILE LEATHER - P.V.C



RED - 2177



BLACK - 2179



BEIGE - 2449



CREAM - 2174



BLUE - 2178



DARK BROWN - 2175



YELLOW - 2173



MAROON - 2176



WHITE - 2180



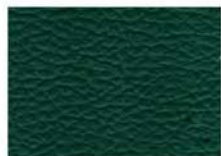
L. BROWN - 2181



L. GREY - 2452



L. BLUE - 2448



GREEN - 2451



LIGHT GREEN - 3764



SKY BLUE - 3761



VIOLET - 3760



BEIGE - 2450



PINK - 3763



BROWN XX - 3646



BEIGE - 4424



GREEN - 5541



GREY - 4426



ORANGE - 4425



**MARINE
ECO
LEATHER**

STAINS ? JUST WATER TO ERASE

'INSPECTION / TEST 'PARAMETERS	TEST METHODS	SPECIFICATION	RESULTS
TOTAL WEIGHT (gm/m2)	ASTM-D-751-79	700 +/- 50	720-722
COATING WEIGHT (gm/m2)		590	630
FABRIC WEIGHT (gm/m2)		110	100
FABRIC TYPE		100% NYLON	PASS
THICKNESS (MM)	ASTM-D-751	1.2 +/-0.05	1.12-1.15
WIDTH (cms)	ASTM-D-751	138-140	138
TENSILE STRENGTH (N)	ASTM-D-751		
WARP		380+/-50	480
WEFT		150+/-50	230
ELONGATION AT BREAK (%)	ASTM-D-751		
WARP		80	100
WEFT		150	180
ADHESION OF COATING (N/5cm)	ASTM-D-751		
WARP		20	32
WEFT		20	40
TEAR STRENGTH (N)	ASTM-D-751		
WARP		30	32
WEFT		30	58
ABRASION RESISTANCE	BS 5690	100000	PASS
COLOR FASTNESS TO LIGHT	DIN 75202	≥ 4	4
COLOR FASTNESS TO RUBBING GREY SCALE	DIN EN ISO 105-X12		
DRY		4	4
WET	GREY SCALE	4	5
FLAMMABILITY	FMVSS 302	PASS	PASS
CHEMICAL RESISTANCE	IS :1259	PASS	PASS
PROPERTY OF FOAM MATERIAL		NA	NA
DURABILITY		NA	NA
BIO COMPATIBILITY		NA	NA



CATALOG - MARINE - P.V.C



GREEN-4022



D. BLUE-5081



BLACK-4018



RED-4017



YELLOW-1541



BLUE-4021



BROWN-4020



L.GREEN-4659



BEIGE-5357



D.GREEN-5085



D.BEIGE-5084



L.GREY-4976



MAROON-5068



ROYAL BLUE-4978



ORANGE-5673



GREY BLUE-4977



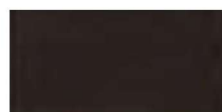
COFFEE-6106



L.BROWN-4428



GOLDEN-4430



D.BROWN-4429



GREY-4432



BLACK-4433



CREAM-6109



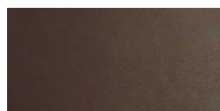
D.YELLOW-6110



L.RED-6105



SKY BLUE-6108



D.BROWN-7200



L.GREY-5999



**ITALIAN
REAL
LEATHER**



TWINSNETWORK



SPECIFICATION

Test	Test Method	Measurement Unit	Guaranteed
Tear strength - single edge tear	UNI EN ISO 3377-1	N	≥ 20
Colour Fastness to rubbing dry 500 Cycles	UNI EN ISO 11640:1998	Grey Scale	≥ 4
Colour Fastness to rubbing Wet 250 Cycles	UNI EN ISO 11640:1998	Grey Scale	≥ 4
Colour Fastness to rubbing Sweat 80 Cycles	UNI EN ISO 11640:1998 ISO 11641 pH8	Grey Scale	≥ 4
Flexing endurance - Dry 50.000 Cycles	UNI EN ISO 5402		No damage
Finish Adhesion - Dry	UNI EN ISO 11644	N/CM	≥ 2
Colour Fastness to artificial light - Exposition energy 16.000 KJ/ SQM	UNI EN ISO 105 B02 (MET .5)	Blue Scale	≥ 5
Burning Behaviour	BS 5852 1979		Pass

Bovine of European origin, lightly buffed natural grain, finished thickness 0.9-1.1 MM, The Average Size of each hide is around 4.8 - 5.0 sqm. Chrome Tannage, Through dyed, finishing with resins and pigments, Article with a pigmented and protective coat, with a soft, waxy feel and semi- matt Appearance

REAL LEATHER



RED - 2659



WHITE - 5736



DARK BLUE - 5763



GREY - 4851



MAROON - 5089



L. BROWN - 5774



GREY STONE - 5911



DARK BROWN - 5087



BLACK - 5773



MALT GREY - 4956



GREY SHADOW- 5912



DUNE BROWN - 4957



CREAM - 1537



COFFEE - 6988



SOUR - 6754



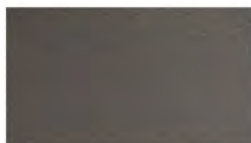
IVORY - 5737



FANGO - 5450



AVORIO - 4932



ASFALTO - 4936



STAINS? JUST WATER TO ERASE

PASSPORT+RIOS



TWINSNETWORK

	ARTICLE: RIOS	INDUSTRY STANDARD
ABRASION RESISTANCE BS EN ISO 12947 MARTINDALE	150 000	20 000
CROCKING (COLOUR FASTNESS) DRY / WET	5.0 / 4.0	4.0 / 3.0
FLAMMABILITY BS 5852 PART 0 CALIFORNIA 117	PASS	N / A
LIGHT FASTNESS ISO 105 - B02	5.0	4.0
PILLING	5.0	4.0
SEAM SLIPPAGE BS EN ISO 13936 WARP / WEFT	50 DAN / 60 DAN	20 DAN / 20 DAN
TENSILE STRENGTH BS EN ISO 13934 WARP / WEFT	60 DAN / 100 DAN	30 DAN / 30 DAN
TEARING STRENGTH DIN BS EN ISO 13937 WARP / WEFT	8 DAN / 10 DAN	2.5 DAN / 2.5 DAN



ANTI BACTERIAL



FIRE RETARDANT



ANTI FUNGAL

ENGINEERED
FABRICS



LANZII

PERFORMANCE COLLECTION

functional - timeless design - highest quality

LANZII FABRIC



5886



5887



5892



5890



5891



5889



5930



5932



5888



5931



5884



5894



5885



5893



6154



6155



6153



**LINDA
FABRIC**

**TWINS
NETWO
RK**

TWINSNETWORK

SPECIFICATION

Colour Fastness To Rubbing

(ISO 105-X12:2016; Size of rubbing finger: 16mm diameter.)

Dry staining : 4-5

Wet staining : 4-5

Remark : Grey Scale rating is based on the 5-step scale of 1 to 5,
where 1 is bad and 5 is good

Pilling Resistance

(ISO 12945-1:2000; 18000 revolutions in ICI pilling tester for 5Hrs.)

As received : Rating 4

Pilling Rating,

5 : No change

4 : Slight Surface fuzzing and / or partially formed pills

3 : Moderate surface fuzzing and/or moderate pilling, Pills of
varying size density partially covering the specimen

2 : Distinct fuzzing and /or distinct pilling. Pills of varying size and density
covering a large proportion of the specimen surface

1 : Dense surface and /or severe pilling, Pills of varying size and density
covering the whole of the specimen surface

CATALOG - LINDA - FABRIC



5871



5938



5872



5873



5874



5875



5876



5939



5877



5878



5879



5880



5881



5940



5941



5882



5942



5883



**TAIBO
FABRIC**

100% POLYESTER SOFA FABRIC

Colour Fastness to Dry Cleaning

(ISO 105-D01:2010;)		Unit	A	Requirement
Change in Shade		Grade	4-5	-
Staining On Multi-fibre Stripe				
Acetate		Grade	4-5	-
Cotton		Grade	4-5	-
Polyamide		Grade	4-5	-
Polyester		Grade	4-5	-
Acrylic		Grade	4-5	-
Wool		Grade	4-5	-

Colour Fastness To Water

(ISO 105-E01:2013; test specimen in vertical position)

		Unit	A	Requirement
Change in Shade		Grade	4-5	-
Staining On Multi-fibre Stripe	-			
Acetate		Grade	4-5	-
Cotton		Grade	4-5	-
Polyamide		Grade	4-5	-
Polyester		Grade	4-5	-
Acrylic		Grade	4-5	-
Wool		Grade	4-5	-

Abrasion Resistance

(ISO 12947-2:2016; Martindale Abrasion & Pilling Tester, Pressure: 12kPa)

	Unit	A	Requirement
The quoted result	Rubs	Exceeds 20000	Exceeds. 20000 Rubs

Pilling Resistance

(ISO 12945-2:2000; Martindale Abrasion & Pilling Tester, Total Load Applied 415g)

Pilling Rating	-	4-5	-
5 No change			
4 Slight change fuzzing and/or partially formed pills			
3 Moderate change fuzzing and/or moderate pilling, pills of varying size and density partially covering the specimen surface			
2 Distinct surface fuzzing and/or distinct pilling, pills of varying size and density covering a large proportion of the specimen surface			
1 Dense surface fuzzing and/or severe pilling, pills of varying size and density covering the whole of the specimen surface			



COFFEE



WINE



KETCHUP



MUSTARD



DRESSING



JUICE



MARKER



FOOD



MORE

TAIBO FABRIC



10084



10085



10086



10087



10088



10089



10090



10091



10092



10093



10094



10095



10096



**FESTIVAL
FABRIC**



TWINSNETWORK

SPECIFICATION

COMPOSITION WEIGHT	:	100% Polyester
	:	300 Grams per Square Meter.
	:	510 Grams per Running Meter
WIDTH	:	170 Cms / 55" +/-2%
FLAMMABILITY	:	BS 5651 PT2 = 1988 Spread of Flame BS 5852 PT2 = 1988 Flame Propagation Flammability Performance is dependent on the combination of material used
LIGHT FASTNESS	:	5+(BS1006 (1990)
FASTNESS OF RUBBING	:	Wet: 5 dry: 4.5
MAINTENANCE	:	Professional cleaning is recommended
AVAILABILITY	:	Ex-stock
COLOUR MATCHING	:	Batch to batch variation in shade may occur within commercial tolerances.
DIRECTIONALITY	:	Festival collection should be treated as directional fabric due to the light reflecting properties of polyester in a crepe weave construction. Care should be taken on application to establish shade variation in accordance with direction

FESTIVAL FABRIC



F-181 Dago Orange



F-102 Spearmint



F-188 Clouds



F-216 Grey



F-210 Purple



F-256 New Orange



F-107 Peppermint



F-122 Mink



F-126 Granada



F-205 Barbados



F-116 Bramble



F-117 Forest



F-202 Pebble



F-192 Midgrey



F-186 Amethyst



F-111 Cream



F-169 Azure New



F-150 Planet



F-215 Sand



F-156 Magneta



F-190 Shimmer



F-189 Peach



F-123 Flame



F-132 Caramel



F-151 Lemon



F-146 Brown



F-164 Corn Flower



F-131 Apollo



F-148 Sangria



F-152 Ruby



F-161 Dolphin



F-199 Sky



F-200 Sea Blue



F-108 Waterfall



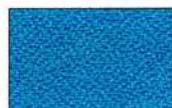
F-145 Salmon



F-103 Lunar



F-191 Medblue



F-129 Sapphire



F-157 Cinnamon



F-174 Indigo



F-253 Oasis



F-254 Antigna



F-169 Azure



F-162 Electric



F-137 Black

Festivo FABRIC's Twinsnetwork collection



H - 1



H - 2



H - 3



H - 4



H - 5



H - 6



H - 7



H - 8



H - 9



H - 10



H - 11



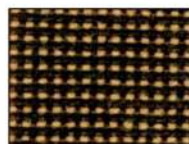
H - 12



H - 13



H - 14



H - 25



F - 22



F - 24



F - 28

TARGET FABRIC



TG / 1021



TG / 1005



TG / 1011



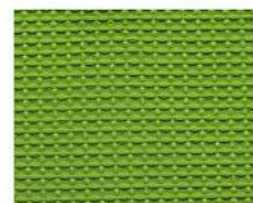
TG / 1008



TG / 1018



TG / 1017



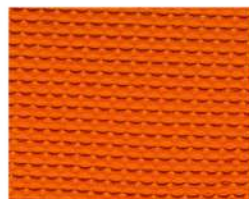
TG / 1013



TG / 1015



TG / 1012



TG / 1001



TG / 1009



TG / 1022

MICRO - FABRIC



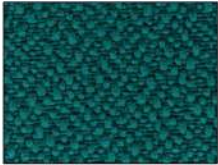
BLACK - 3603



BROWN - 3600



BLUE -3605



MARTIQUE - 3604



BL. GREEN - 3601



WINE - 3599



D. BLUE - 3602



GREY - 3598

SUNDUS - FABRIC



GRASS - 5131



FIRE - 5133



SKY - 5132



SAND - 5130



**TWINS
ABSOLUTE
MESH**

**TWINS
NETWO
RK**

TWINSNETWORK



SPECIFICATION

Application	:	Seating & Back	
Material	:	Polyester	100%
Weight	:	Gram / Yard	440
Width	:	CM	162.56
Abrasion Resistance	:	ASTM D4157: 2013, Option 1 (#10 Cotton Duck)	>100000
Pilling	:	BS EN Iso 12945-2 :2000, Martindale Method	4.5
Colour Fastness To Light	:	AATCC 16.3: 2014, Xnon-Arc-Lamp Grey Scale	4.5
Colour Fastness To Rubbing	:	AATCC 8 : 2016 Dry / Wet	3.0 / 4.0
Flammability	:	California Technical Bulletin 117, Section E : 2000	Pass

TWINS ABSOLUTE MESH



GREEN - 6841



BLACK - 6842



WHITE - 6843



BLUE - 6844



L. GREY- 6845



GREY - 6846

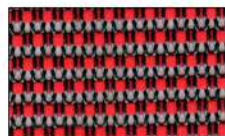
JOJO MESH



WHITE - 5112



BLACK - 3534



BL - RED- 3535



BL - BLUE- 3537



ORANGE- 4014



BLACK Z.Z- 3798

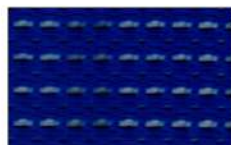
BROWN MESH



BLACK-6419



RED-2665



BLUE - 1353



GREY - 4644



BROWN - 2666