

YUMA TESLA

More Lighter, More Stronger and All-weather
Sunshading fabric

TSL-MY

Openness
Factor
4%



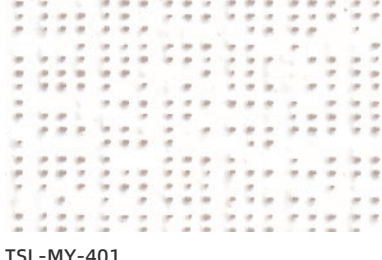
More Lighter



More Stronger



All-weather



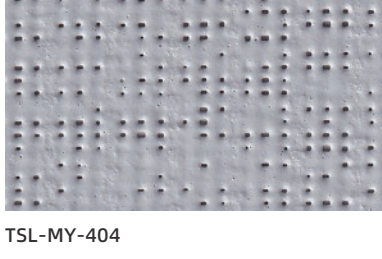
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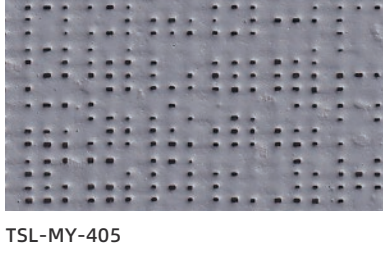
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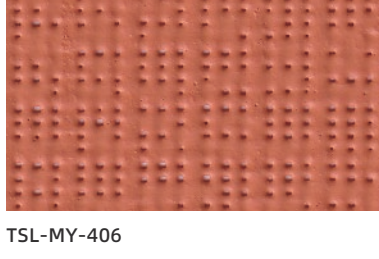
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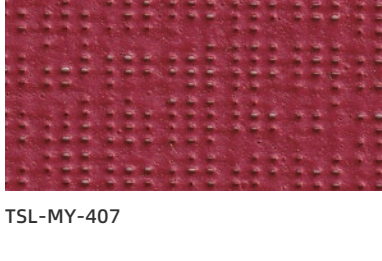
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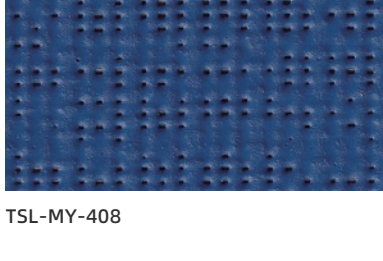
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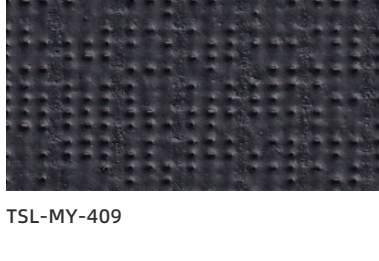
TSL-MY-406



TSL-MY-407



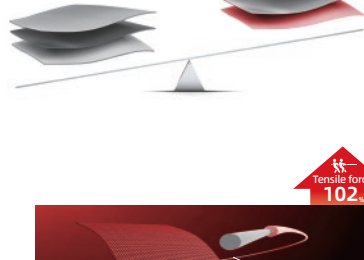
TSL-MY-408



TSL-MY-409

More Lighter

The fabric is woven from high-strength polyester fiber and then coated with a complete high-performance composite material. The overall surface of the fabric is completely protected at one time, and the surface is smooth and flat. Compared with the sunscreen fabric on the market, with the same tensile strength , the weight is reduced by 30%.



More Stronger

①Compared with the existing sunscreen fabrics in the market, the tensile force is increased by 102%.

The proportion of ultra-low shrinkage and ultra-high strength industrial silk is 35% - 40%, and the tensile strength is increased by 102% compared with the same weight of sunscreen fabric.



②Super dimensional stability: unique **Strain Balance** constant tension + prestress proprietary balance technology.

③Five prevention function.

Water resistance: The high-performance composite material coating is applied on the high-strength polyester fiber as a whole, which is waterproof and will not absorb water, and there is no possibility of mildew and bacteria breeding.

Fire resistance: German standard B1, GB/T17591, American standard NFPA701, European standard EN 13773, EN13501, Canadian fire protection and other certificates are complete, meeting fire safety requirements.

High colour fastness: Pass the ISO 105-B04 artificial weather color fastness test to ensure that the fabric will not fade for 8-10 years.

Mildew proof: European standard all-weather color fastness, no fading. The full range of products passed ASTM G21, grade 0 mildew resistance 28 days no growth test.

Free of formaldehyde: Listed companies purchase PVC, additives and other raw materials that are healthy and environmentally friendly, and do not contain formaldehyde.



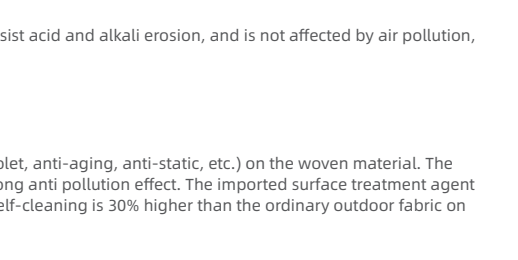
④Super strong edge sealing ability.

⑤Environmental friendly.

All-Weather

①Aging resistance + extreme temperature resistance.

Thanks to the excellent surface coating process, the fabric is more suitable for extreme outdoor environments.



②Corrosion resistance.

The excellent surface treatment process of Yuma TSL fabric has strong corrosion resistance, can resist acid and alkali erosion, and is not affected by air pollution, acid rain and ozone.

③Anti fouling + self cleaning.

The fabric is coated with a complete high-performance composite material (anti dust, anti ultraviolet, anti-aging, anti-static, etc.) on the woven material. The overall surface is protected, smooth and flat, not easily affected by external factors, and has a strong anti pollution effect. The imported surface treatment agent effectively prevents the precipitation of plasticizer, the fabric surface is flat and smooth, and the self-cleaning is 30% higher than the ordinary outdoor fabric on the market.



• Technical properties			
Width	200 (customized) /250/300cm		DIN EN ISO 2286-1
Thickness (±0.02mm)	0.45mm		DIN EN ISO 2286-3
Total Weight	440g/m²		DIN EN ISO 2286-2
Roll length	30m/roll		-
• Physical properties			
Tensile strength	Warp 3200N/5CM Weft 2000N/5CM		EN ISO 1421
Tear strength	Warp 500N/5CM Weft 220N/5CM		DIN 53363
• Flame retardancy			
Flame retardancy	B1		DIN 4102
	NFPA 701		NFPA 701: 2015
	B1		GB/T17591
	B-s1,d0		EN13501-1
• Solar optical values			
Color fastness	8 Grade		EN ISO 105-B02
• Eco friendly			
Heavy metal test (Cd/Pb/Hg)	None		GB/T 26125-2011
Odor test	None		GB 18401-2010.6.7
PH test	Pass		GB/T 7573-2009
Formaldehyde content test	None		GB/T 2912.1-2009
Mouldproof test	0 (Highest)		ASTM G 21-15 (2021)
• Certifications, labels, guarantees			
China Environmental Labelling	Pass		-
BSCI	Pass		-
System certification	ISO 9001 / ISO 14001 / ISO 45001		DIN EN

The technical data above are averaged values with a +/-5% tolerance.

Values quoted in this document are commonly used test results for design purposes. They are given for information only in order to offer our customers optimum usage of our products. Our products are subject to improvements resulting from technical developments and we reserve the right to modify their characteristics at any time.

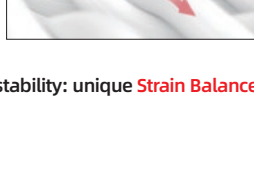
The purchaser of our products is responsible for checking the above data.The colours and textures presented are included for information only.

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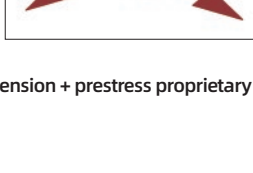
Strain[®]balance

Constant tension

Measured by two tension detectors - the actual tension is compared with the artificially required tension, the tension controller will set the corresponding reduction or increase of the output proportion of the tension, so that the actual tension and the required tension maintain a dynamic balance to achieve constant tension. To achieve the fabric is flat state when it is sold from the factory.



+



Prestress

In the process of coating, two-way tension is always applied to the warp and weftward of the material, so the fabric does not have any deformation, droop, fold, depression even under the force, and has the characteristics of maintaining permanent stability of the size, especially suitable for the use of large size. Even in the later period under the condition of violent heat, the fiber always maintains a tensioned state and does not deform.

Super dimensional stability: unique **Strain Balance[®]** constant tension + prestress proprietary balance technology.

TSL-MY-401		70.69	21.64	7.67	18.33
TSL-MY-402		58.27	13.48	28.25	8.99
TSL-MY-403		49.7	12.48	37.82	8.75
TSL-MY-404		39.58	7.04	53.38	5
TSL-MY-405		26.3	3.63	70.07	2.55
TSL-MY-406		42.76	13.1	44.14	4.97

Ts: Solar energy Transmission
The proportion of solar energy transmitted through the fabric. A low percentage means that the fabric performs well in reducing solar energy.

Rs: Solar Reflectivity
The proportion of solar radiation reflected by the fabric. A high percentage means that the fabric performs well in reflecting solar energy.

As: Solar Absorbance
The rate at which the fabric absorbs the sun. Solar radiation is always partially passed through, absorbed or reflected by the fabric, and the sum of the three equals 100.

Ts + Rs + As = 100% Solar radiation energy.

