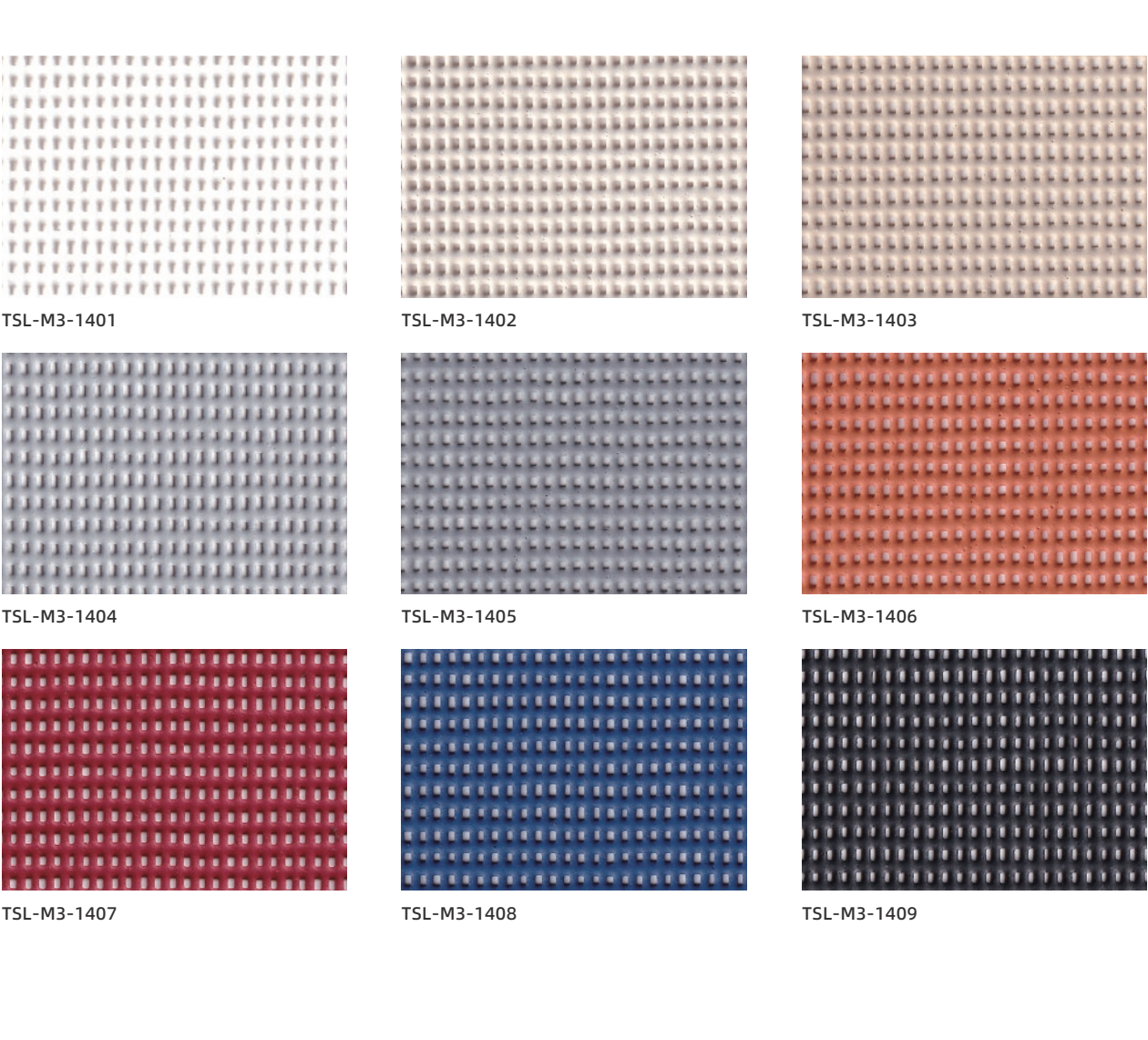
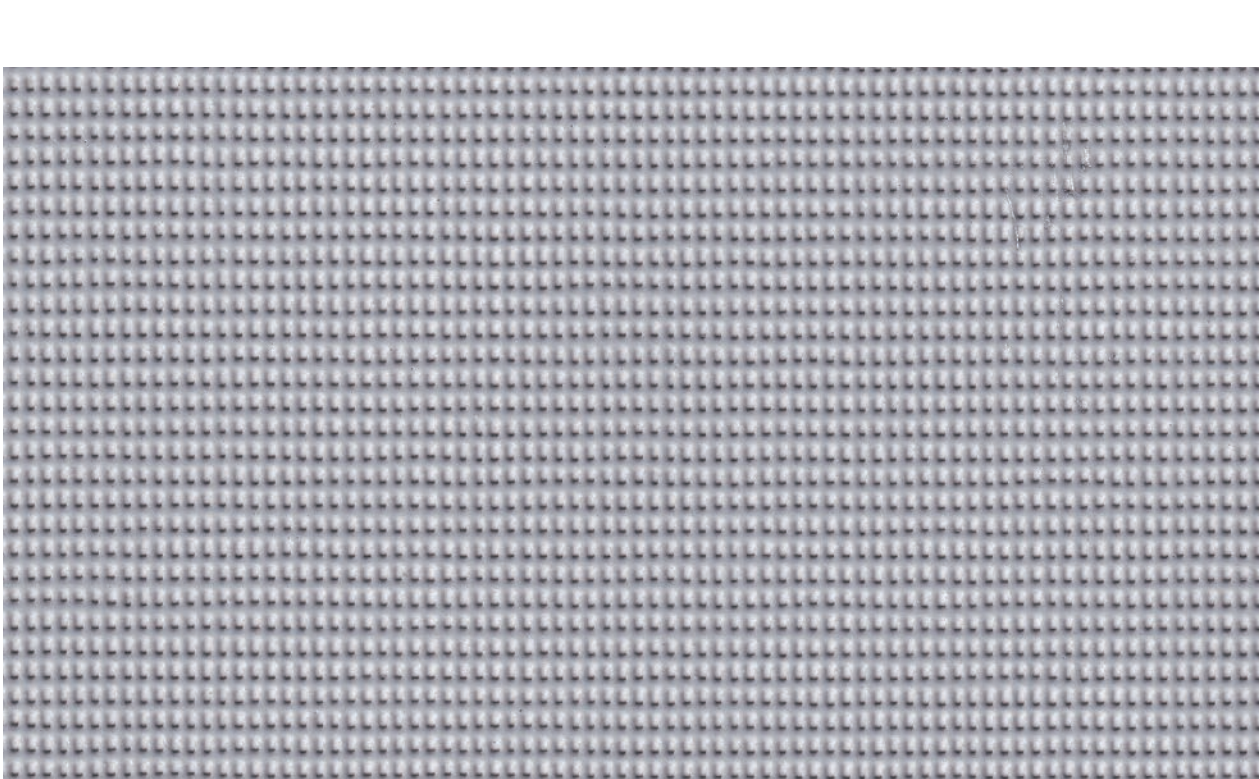


YUMA TESLA

More Lighter, More Stronger and All-weather Sunshading fabric

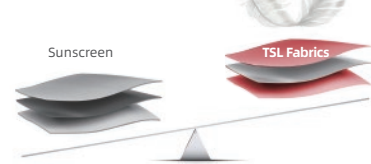
TSL-M3

Openness Factor 14%



More Lighter

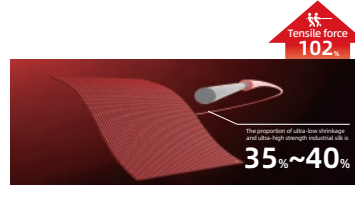
The fabric is woven from high-strength polyester fiber and then coated with a complete high-performance composite material. The overall surface of the fabric is completely protected at one time, and the surface is smooth and flat. Compared with the sunscreen fabric on the market, with the same tensile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



More Stronger

① Compared with the existing sunscren 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 sunscren fabric.



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

③ Five 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 certifications are complete, 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.

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.

④ Super strong edge sealing ability.

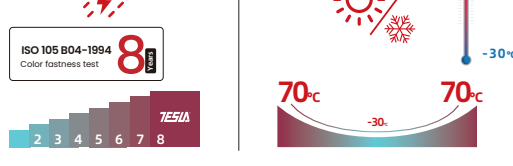
⑤ Environmental friendly.



All-Weather

① Aging resistance + extreme temperature resistance.

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

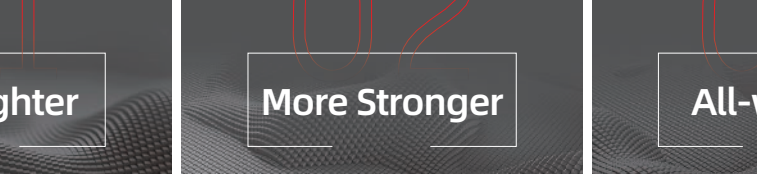


② Corrosion resistance.

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.

③ Anti 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) | 0.5mm | DIN EN ISO 2286-3 |
| Total Weight | 390g/m ² | DIN EN ISO 2286-2 |
| Roll length | 30m/roll | - |

| Physical properties | | |
|---------------------|----------------------------------|-------------|
| Tensile strength | Warp 2700N/5CM Weft 1800N/5CM | EN ISO 1421 |
| Tear strength | Warp 450N/5CM Weft 200N/5CM | DIN 53363 |

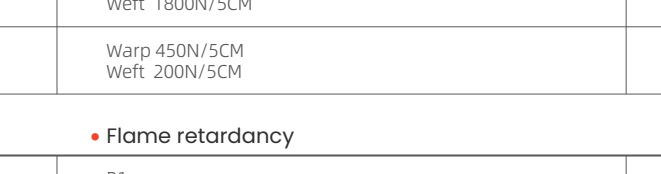
| Flame retardancy | | |
|------------------|----------|----------------|
| Flame retardancy | B1 | DIN 4102 |
| | NFPA 701 | NFPA 701: 2015 |
| | B1 | GB/T17591 |
| | B-s1,d0 | EN13501-1 |

| 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.



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.

| COLOR CODING | OPENNESS FACTOR 14% | | | |
|--------------|---------------------|-------|-------|-------|
| | RS | TS | AS | TV |
| TSL-M3-1401 | 62.21 | 33 | 4.79 | 30.67 |
| TSL-M3-1402 | 49.33 | 24.58 | 26.09 | 21.56 |
| TSL-M3-1403 | 40.81 | 23.93 | 35.26 | 20.73 |
| TSL-M3-1404 | 31.09 | 21.62 | 47.29 | 20.52 |
| TSL-M3-1405 | 23.04 | 16.98 | 59.98 | 15.13 |
| TSL-M3-1406 | 35.95 | 27.01 | 37.04 | 20.14 |
| TSL-M3-1407 | 23.26 | 22.66 | 54.08 | 18.64 |
| TSL-M3-1408 | 17.51 | 17.46 | 65.03 | 14.06 |
| TSL-M3-1409 | 5.79 | 15.83 | 78.38 | 15.96 |

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.

