

# *True View*

## TTV & TVE Exterior

True View Screen White

Normal Screen White

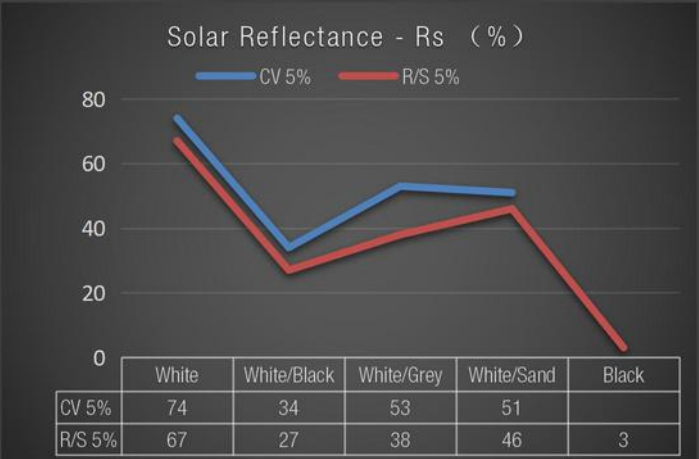
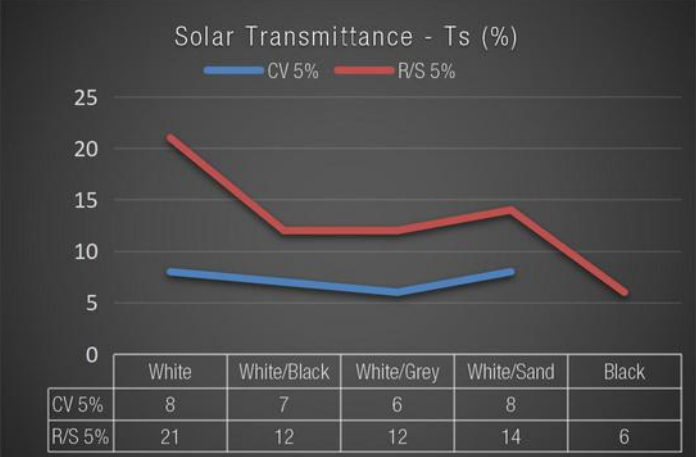
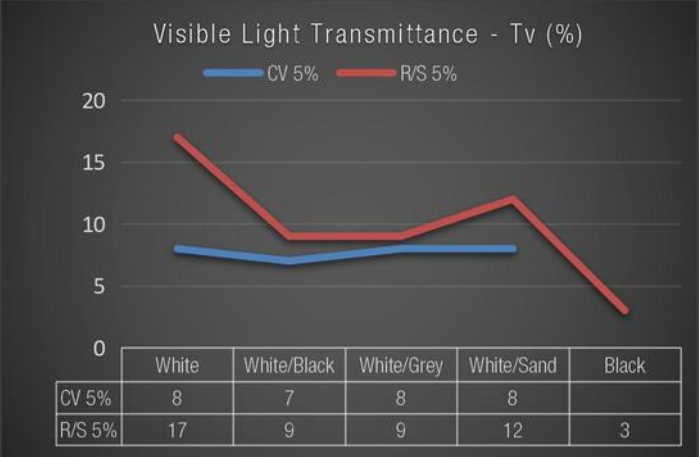
Bringing New Ideas to the Window



## Solar Comparison Data

From comparison of Optical and thermal factor, True View White will reflect more sloar heat (Rs=74, Black Rs=3), and also can achieve the same effect of glare control as black fabric (Tv=8, Black Tv=3), It solves the problem of combining solar reflection and glare control.

True View 5% (TTV 5%) AND Regular Screen 5% (R/S 5%)



# TRUE VIEW

## INNOVATIVE SUNSCREEN FABRICS

## WITH INTEGRATED TRANSPARENCY, THERMAL COMFORT AND GLARE CONTROL

The light-colored fabric enhances heat reflection, regulates more visible light into the room, reducing glare effectively. It also boosts the transparency, clarity, and visual comfort, thereby contributing to improve the energy efficiency of homes and buildings

- Excellent Glare control, Up to 98% of visible light blocked (Tv=2%)
- Excellent solar protection, Up to 78% of solar reflection (RS=78%,SHGC=0.10)
- Basket Weave 2X2, The classic and popular style of weaving
- COORDINATED RANGE WITH A VARIETY OF OPENNESS FACTORS (1%, 3%, 5%)  
To Optimize Solar Protection In All Applications, Maintaining a Consistent Design Aesthetic
- **TVE** Excellent MECHANICAL RESISTANCE And Dimensional Stability For Large Roller Blinds
- Health & Safty: Conforms To Standard Requirements For Buildings Open To The Public
- Excellent digital printing medium for custom designs

8% vs 17%

True View vs Regular Screen 5%  
Of

Visible Light Transmittance

78%

Up To Solar Reflectance



Thermal and Optical Factors

| Color       | Fabric Properties |    |    |         |    | Fabric & Glass        |      | Recommended Comfort Classification |                         |                  |                  |                       |  |  |
|-------------|-------------------|----|----|---------|----|-----------------------|------|------------------------------------|-------------------------|------------------|------------------|-----------------------|--|--|
|             | Thermal           |    |    | Optical |    | SHGC %<br>Improvement | SHGC | Thermal<br>Control                 | Visual                  |                  |                  |                       |  |  |
|             | Ts                | Rs | As | Rv      | Tv |                       |      |                                    | Daylight<br>Utilization | Glare<br>Control | Night<br>Privacy | Outward<br>Visibility |  |  |
| TTV 1%      |                   |    |    |         |    |                       |      |                                    |                         |                  |                  |                       |  |  |
| White*White | 3                 | 78 | 19 | 85      | 3  | 73%                   | 0.10 | 3                                  | 1                       | 3                | 2                | 1                     |  |  |
| White*Black | 3                 | 49 | 48 | 54      | 3  | 56%                   | 0.21 | 2                                  | 1                       | 3                | 2                | 1                     |  |  |
| White*Grey  | 2                 | 59 | 39 | 65      | 2  | 62%                   | 0.11 | 3                                  | 1                       | 3                | 2                | 1                     |  |  |
| White*Sand  | 3                 | 61 | 36 | 66      | 3  | 62%                   | 0.12 | 3                                  | 1                       | 3                | 2                | 1                     |  |  |
| TTV 3%      |                   |    |    |         |    |                       |      |                                    |                         |                  |                  |                       |  |  |
| White*White | 7                 | 74 | 19 | 81      | 7  | 68%                   | 0.14 | 3                                  | 1                       | 2                | 1                | 2                     |  |  |
| White*Black | 6                 | 40 | 54 | 44      | 7  | 50%                   | 0.26 | 2                                  | 1                       | 2                | 1                | 2                     |  |  |
| White*Grey  | 6                 | 53 | 41 | 58      | 6  | 57%                   | 0.22 | 2                                  | 1                       | 2                | 1                | 2                     |  |  |
| White*Sand  | 7                 | 54 | 39 | 58      | 7  | 57%                   | 0.21 | 2                                  | 1                       | 2                | 1                | 2                     |  |  |
| TTV 5%      |                   |    |    |         |    |                       |      |                                    |                         |                  |                  |                       |  |  |
| White*White | 8                 | 74 | 18 | 81      | 8  | 67%                   | 0.15 | 3                                  | 1                       | 2                | 1                | 3                     |  |  |
| White*Black | 7                 | 34 | 59 | 37      | 7  | 47%                   | 0.28 | 2                                  | 1                       | 2                | 1                | 3                     |  |  |
| White*Grey  | 6                 | 53 | 41 | 53      | 8  | 54%                   | 0.24 | 2                                  | 1                       | 2                | 1                | 3                     |  |  |
| White*Sand  | 8                 | 51 | 41 | 54      | 8  | 54%                   | 0.23 | 2                                  | 1                       | 2                | 1                | 3                     |  |  |
| TVE 5%      |                   |    |    |         |    |                       |      |                                    |                         |                  |                  |                       |  |  |
| White*White | 7                 | 74 | 19 | 82      | 7  | 68%                   | 0.14 | 3                                  | 1                       | 2                | 1                | 3                     |  |  |
| White*Black | 7                 | 36 | 57 | 40      | 7  | 48%                   | 0.27 | 2                                  | 1                       | 2                | 1                | 3                     |  |  |
| White*Grey  | 7                 | 50 | 43 | 55      | 7  | 55%                   | 0.23 | 2                                  | 1                       | 2                | 1                | 3                     |  |  |
| White*Sand  | 7                 | 52 | 41 | 56      | 7  | 56%                   | 0.22 | 2                                  | 1                       | 2                | 1                | 3                     |  |  |

Ts (Solar transmittance): Proportion of solar energy transmitted through the fabric.

Rs (Solar reflectance): Proportion of solar radiation reflected by the fabric. As (Solar absorptance): Proportion of solar radiation absorbed by the fabric.

Tv (Visible light transmittance): Total percentage of light radiation through the fabric over a wave length of 380 to 780nm.

Rv (Visible light reflectance): Total percentage of light radiation reflected by the fabric over a wavelength of 380 to 780 nm.

SHGC (Total solar factor): Solar energy which actually penetrates into a room through the blind and glazing.

A low value means good thermal performance. Comfort Classification According to EN14501 : 0.Very little effect 1.Little effect 2.Moderate effect 3.Good effect 4.Very good effect

# Solar Fenestration Properties Comparison

| Color | Fabric Properties |    |    |         | Fabric & Glass |
|-------|-------------------|----|----|---------|----------------|
|       | Thermal           |    |    | Optical | SHGC           |
|       | Ts                | Rs | As | Tv      |                |

|             |   |    |    |   |      |
|-------------|---|----|----|---|------|
| White*White | 3 | 78 | 19 | 3 | 0.10 |
| White*Black | 3 | 49 | 48 | 3 | 0.21 |
| White*Grey  | 2 | 59 | 39 | 2 | 0.11 |
| White*Sand  | 3 | 61 | 36 | 3 | 0.12 |

|             |    |    |    |    |      |
|-------------|----|----|----|----|------|
| White*White | 16 | 72 | 12 | 13 | 0.21 |
| White*Black | 3  | 25 | 72 | 3  | 0.28 |
| White*Grey  | 8  | 45 | 47 | 5  | 0.25 |
| White*Sand  | 12 | 55 | 33 | 8  | 0.23 |

|             |   |    |    |   |      |
|-------------|---|----|----|---|------|
| White*White | 7 | 74 | 19 | 7 | 0.14 |
| White*Black | 6 | 40 | 54 | 7 | 0.26 |
| White*Grey  | 6 | 53 | 41 | 6 | 0.22 |
| White*Sand  | 7 | 54 | 39 | 7 | 0.21 |

|             |    |    |    |    |      |
|-------------|----|----|----|----|------|
| White*White | 18 | 70 | 12 | 15 | 0.23 |
| White*Black | 8  | 26 | 66 | 7  | 0.29 |
| White*Grey  | 9  | 40 | 51 | 7  | 0.27 |
| White*Sand  | 14 | 51 | 35 | 10 | 0.26 |

|             |   |    |    |   |      |
|-------------|---|----|----|---|------|
| White*White | 8 | 74 | 18 | 8 | 0.15 |
| White*Black | 7 | 34 | 59 | 7 | 0.28 |
| White*Grey  | 6 | 53 | 41 | 8 | 0.24 |
| White*Sand  | 8 | 51 | 41 | 8 | 0.23 |

|             |    |    |    |    |      |
|-------------|----|----|----|----|------|
| White*White | 21 | 67 | 12 | 17 | 0.25 |
| White*Black | 12 | 27 | 61 | 9  | 0.31 |
| White*Grey  | 12 | 38 | 50 | 9  | 0.30 |
| White*Sand  | 14 | 46 | 40 | 12 | 0.28 |

|             |   |    |    |   |      |
|-------------|---|----|----|---|------|
| White*White | 7 | 74 | 19 | 7 | 0.14 |
| White*Black | 7 | 36 | 57 | 7 | 0.27 |
| White*Grey  | 7 | 50 | 43 | 7 | 0.23 |
| White*Sand  | 7 | 52 | 41 | 7 | 0.22 |

|             |    |    |    |    |      |
|-------------|----|----|----|----|------|
| White*White | 23 | 66 | 11 | 20 | 0.25 |
| White*Black | 11 | 28 | 61 | 9  | 0.29 |
| White*Grey  | 11 | 39 | 50 | 9  | 0.28 |
| White*Sand  | 14 | 49 | 37 | 11 | 0.27 |

Ts (Solar transmittance): Proportion of solar energy transmitted through the fabric.

Rs (Solar reflectance): Proportion of solar radiation reflected by the fabric.

As (Solar absorptance): Proportion of solar radiation absorbed by the fabric.

Tv (Visible light transmittance): Total percentage of light radiation through the fabric over a wave length of 380 to 780nm.

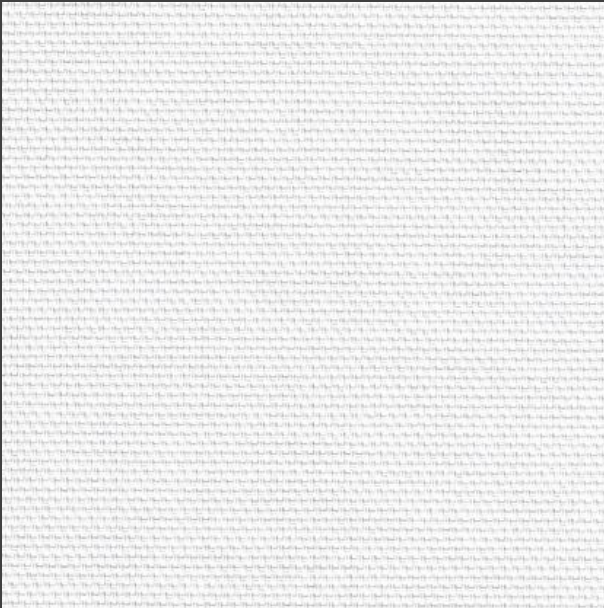
Rv (Visible light reflectance): Total percentage of light radiation reflected by the fabric over a wave length of 380 to 780 nm.

SHGC (Total solar factor): Solar energy which actually penetrates into a room through the blind and glazing. A low value means good thermal performance.

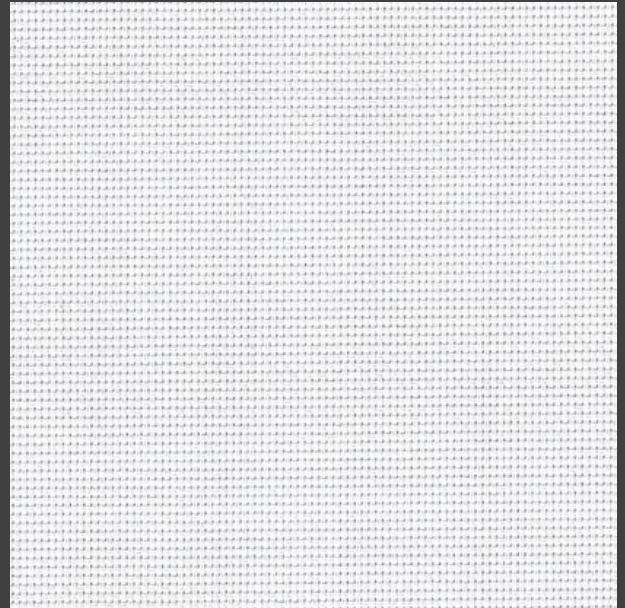


# Openness Factor

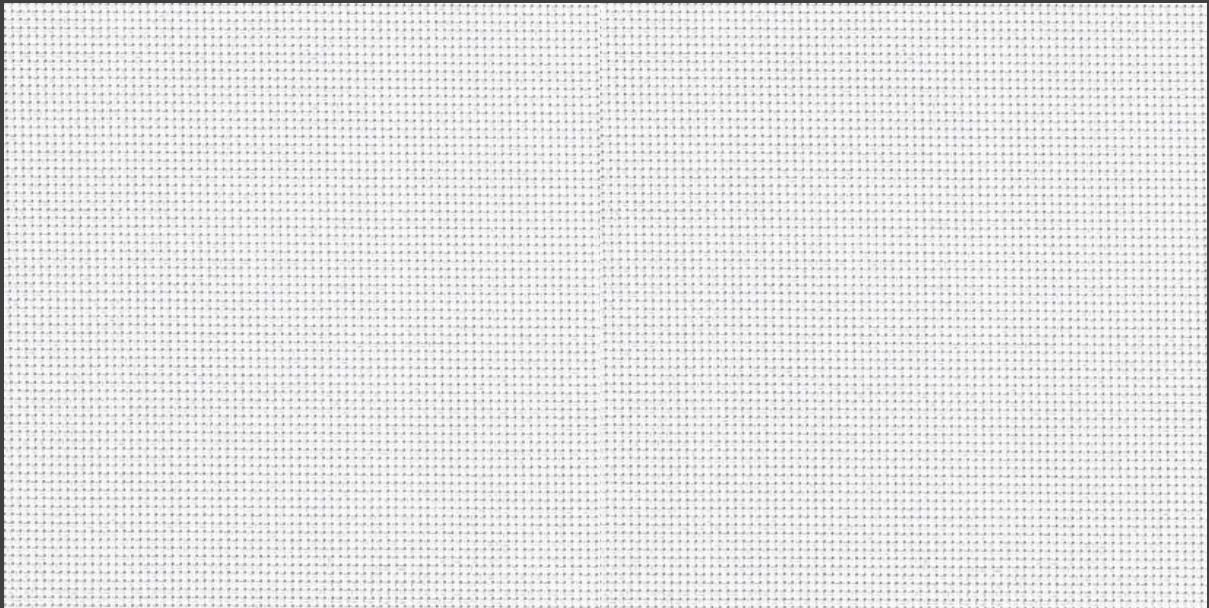
Col 01 White \* White



TTV 1%



TTV 3%



TTV 5%

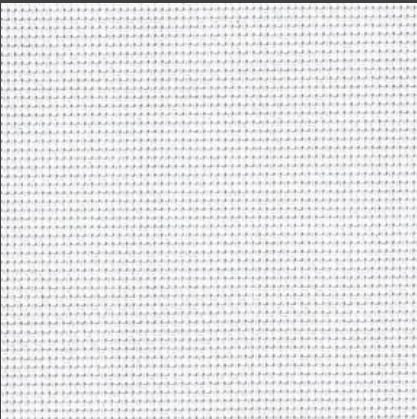


TVE 5%



Colours

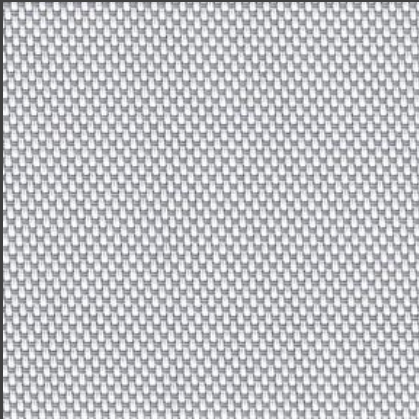
TTV 3% & TVE 5%



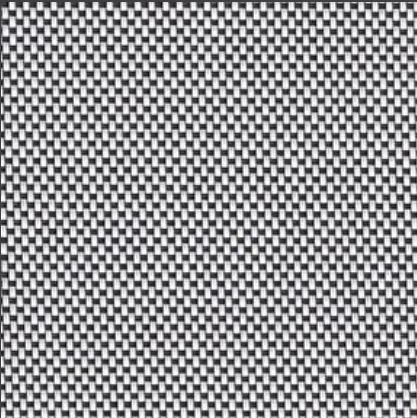
TTV-01 White \* White



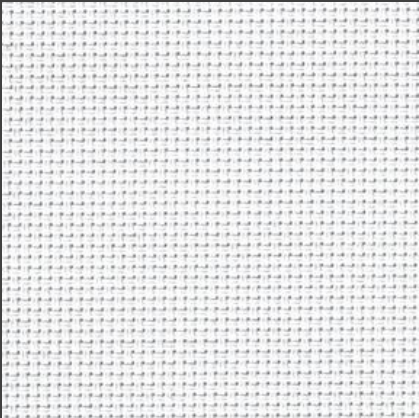
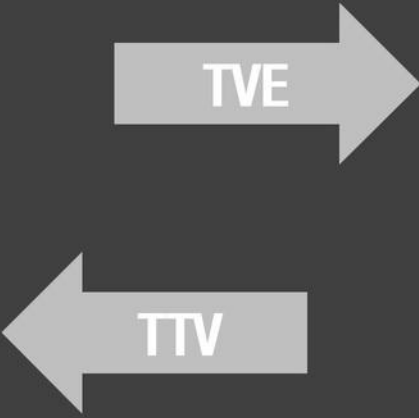
TTV-02 White \* Sand



TTV-03 White \* Grey



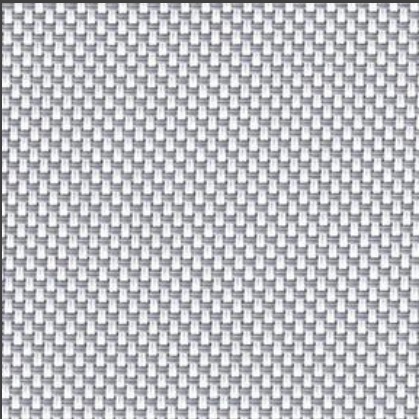
TTV-09 White \* Black



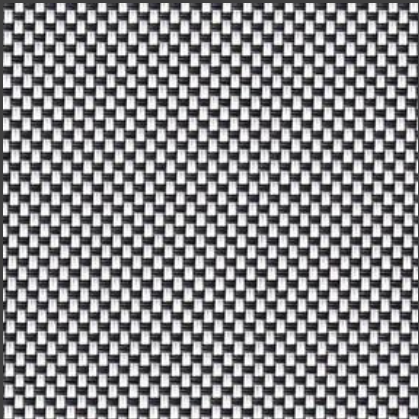
TVE-01 White \* White



TVE-02 White \* Sand



TVE-03 White \* Grey



TVE-09 White \* Black

# Product Certificate

|                               |                                                 |                                    |                    |                 |                         |                |                          |  |
|-------------------------------|-------------------------------------------------|------------------------------------|--------------------|-----------------|-------------------------|----------------|--------------------------|--|
| Fire, Smoke Classification    | FR(US)-NFPA 701 TM#1                            |                                    |                    |                 | BS(GB)-5867 Part2 TypeB |                | CA-CAN ULC-S109-14-R2019 |  |
|                               | B1(CN)-GB17591                                  |                                    | B1(DE)-DIN4102     |                 | C1(EU)-C1 GENERAL       |                |                          |  |
| Health & Safety               | Oeko-texStandard 100class IV                    |                                    |                    | Greenguard®Gold |                         | MIFCertificate |                          |  |
|                               | RoHS Directive (EU)2015/863                     |                                    |                    | EN71Part3:1994  |                         |                |                          |  |
|                               | AATCC112-2014                                   |                                    |                    | GB18586-2001    |                         |                |                          |  |
| Bacterial & Fungal Resistance | ASTM G21-15                                     | 0 Grade                            | None fungal growth |                 |                         |                |                          |  |
|                               | ASTM E 2180-07                                  | Reduce more than 99.9% of bacteria |                    |                 |                         |                |                          |  |
| Colour fastness to light      | Grade8 ISO105 B02:2014                          |                                    |                    |                 |                         |                |                          |  |
|                               | ≥4.0 AATCC TM16.3-2014; Option3; Xenon Arc Lamp |                                    |                    |                 |                         |                |                          |  |
| Warranty                      | 5 Years                                         |                                    |                    |                 |                         |                |                          |  |



## Technical Data

| STYLE                     |                  | TTV01                    | TTV03                    | TTV05                    | TVE05                    |
|---------------------------|------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Composition               |                  | 22% Polyester<br>78% PVC | 22% Polyester<br>78% PVC | 22% Polyester<br>78% PVC | 25% Polyester<br>75% PVC |
| Openness Factor           |                  | ≈1%                      | ≈3%                      | ≈5%                      | ≈5%                      |
| UV Screen                 |                  | Up to 99%                | Up to 97%                | Up to 94%                | Up to 95%                |
| Width                     | inch             | 98"-118"                 | 98"-118"                 | 98"-118"                 | 98"-118"                 |
|                           | cm               | 250-300                  | 250-300                  | 250-300                  | 250-300                  |
| Weight                    | oz/yd2           | 14.15±5%                 | 13.46±5%                 | 12.97±5%                 | 17.69±5%                 |
|                           | g/m <sup>2</sup> | 480 ± 5%                 | 460 ± 5%                 | 440 ± 5%                 | 600 ± 5%                 |
| Thickness                 | inch             | 0.022 ± 5%               | 0.022 ± 5%               | 0.020 ± 5%               | 0.030 ± 5%               |
|                           | mm               | 0.55 ± 5%                | 0.56 ± 5%                | 0.52 ± 5%                | 0.76 ± 5%                |
| MECHANICAL RESISTANCE     |                  |                          |                          |                          |                          |
| Breaking<br>(ISO 13934-1) | Warp             | ≥1750 N/5cm              | ≥1700 N/5cm              | ≥1430 N/5cm              | ≥2640 N/5cm              |
|                           | Weft             | ≥1250 N/5cm              | ≥1400 N/5cm              | ≥1420 N/5cm              | ≥2060 N/5cm              |
| Tear<br>(ISO 4674)        | Warp             | ≥95N                     | ≥90N                     | ≥80N                     | ≥230 N                   |
|                           | Weft             | ≥70N                     | ≥70N                     | ≥85N                     | ≥210 N                   |
| Packing<br>(Roll Length)  |                  | 32.8 yards<br>30 lm      | 32.8 yards<br>30 lm      | 32.8 yards<br>30 lm      | 32.8 yards<br>30 lm      |