

G-Tex® CUSHION range products are of a type of nonwoven geotextile composed of virgin polyester staple fibers or continuous filaments which are formed into a stable network by needle punching such that the fibres retain their relative position. G-Tex® CUSHION range geotextiles are inert to biological degradation and resists naturally encountered chemicals, acids and alkalis. G-Tex® CUSHION range geotextiles are manufactured in accordance to ISO 9001 quality system which is widely used in environmental applications such as landfills to protect geomembranes.

| PROPERTIES<br>[Standards]  |                    | Unit              | GLS-V HG1      | GLS-V HG2      | GLS-V HG3      | GLS-V HG4      | GLS-V HG5       | GLS-V HG6       | GLS-V HG7        | GLS-V HG8        |
|--|--------------------|-------------------|----------------|----------------|----------------|----------------|-----------------|-----------------|------------------|------------------|
| <b>Mechanical Properties</b> (Mechanical values published here which involves machine direction and cross machine direction are in weak direction) |                    |                   |                |                |                |                |                 |                 |                  |                  |
| Wide Width Tensile Strength<br>[AS3706.2a]   | Typical<br>Minimum | KN/m              | 37<br>31       | 43<br>36       | 52<br>44       | 58<br>48       | 63<br>53        | 65<br>55        | 68<br>57         | 70<br>59         |
| Wide Width Tensile Strength Elongation<br>[AS3706.2a]  | Typical<br>Minimum | %                 | 60.0<br>50.0   | 60.0<br>50.0   | 60.0<br>50.0   | 60.0<br>50.0   | 60.0<br>50.0    | 60.0<br>50.0    | 60.0<br>50.0     | 60.0<br>50.0     |
| Wide strip toughness<br>[AS3706.2a]  | Typical<br>Minimum | KJ/m <sup>2</sup> | 11.1<br>7.8    | 11.0<br>7.3    | 15.6<br>11.0   | 17.3<br>12.2   | 18.9<br>13.3    | 19.5<br>13.8    | 20.4<br>14.4     | 21.0<br>14.8     |
| Grab Tensile Strength<br>[AS3706.2]  | Typical<br>Minimum | N                 | 1,920<br>1,610 | 2,240<br>1,880 | 2,910<br>2,440 | 3,100<br>2,600 | 3,300<br>2,770  | 3,500<br>2,940  | 3,700<br>3,110   | 3,950<br>3,320   |
| Grab Tensile Strength Elongation<br>[AS3706.2]   | Typical<br>Minimum | N                 | 60<br>50       | 60<br>50       | 60<br>50       | 60<br>50       | 60<br>50        | 60<br>50        | 60<br>50         | 60<br>50         |
| Trapezoidal Tear Strength<br>[AS3706.3]  | Typical<br>Minimum | N                 | 700<br>590     | 820<br>690     | 1,000<br>840   | 1,150<br>970   | 1,300<br>1,090  | 1,450<br>1,220  | 1,600<br>1,340   | 1,700<br>1,430   |
| CBR Burst Strength<br>[AS3706.4]   | Typical<br>Minimum | KN                | 5,900<br>5,070 | 6,883<br>5,920 | 7,900<br>6,790 | 9,200<br>7,910 | 10,500<br>9,030 | 11,000<br>9,460 | 11,500<br>9,890  | 12,000<br>10,320 |
| G Rating<br>[Austroads]  | Typical<br>Minimum | Austroads         | 6,100<br>5,180 | 7,110<br>6,040 | 8,370<br>7,110 | 9,440<br>8,020 | 10,500<br>8,920 | 11,270<br>9,580 | 12,280<br>10,440 | 13,040<br>11,080 |

### Hydraulic Properties

|   |                    |                     |              |              |              |              |              |              |              |              |
|---|--------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Flow Rate @100mm head<br>[AS3706.9]                 | Typical<br>Minimum | L/m <sup>2</sup> /s | 50<br>30     | 40<br>35     | 30<br>18     | 25<br>15     | 20<br>12     | 15<br>9      | 10<br>6      | 7<br>4       |
| Permittivity<br>[AS3706.9]                          | Typical<br>Minimum | Sec <sup>-1</sup>   | 0.50<br>0.30 | 0.40<br>0.35 | 0.30<br>0.18 | 0.25<br>0.15 | 0.20<br>0.12 | 0.15<br>0.09 | 0.10<br>0.06 | 0.07<br>0.04 |
| Apparent Opening Size O <sub>95</sub><br>[AS3706.7] | Typical<br>Minimum | µm                  | N/A<br>N/A   | N/A<br>N/A   | N/A<br>N/A   | N/A<br>N/A   | N/A<br>N/A   | N/A<br>N/A   | N/A<br>N/A   | N/A<br>N/A   |

### Endurance Properties

|                              |   |  |   |  |  |  |  |  |  |  |
|------------------------------|---|--|---|--|--|--|--|--|--|--|
| UV Resistance<br>[AS3706.11] | - |  | 70% strength retained after 500h exposure |  |  |  |  |  |  |  |
|------------------------------|---|--|---|--|--|--|--|--|--|--|

### Roll Dimensions & Loadabilities

|                            |   |       |   |   |   |   |   |   |   |   |
|----------------------------|---|-------|---|---|---|---|---|---|---|---|
| Roll Width                 | - | m     | 6   | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Roll Length                | - | m     | Determined according to the customized specifications |   |   |   |   |   |   |   |
| Approx Load Q' ty / 40' HQ | - | Rolls | Determined according to the customized specifications |   |   |   |   |   |   |   |
|                            | - | Sq. m | Determined according to the customized specifications |   |   |   |   |   |   |   |

Above values are on an average basis, the data was obtained from in-house test laboratory and independent laboratory which is CNAS accredited. It yields a 97.5% confidence in values of MARV and 50% confidence in values of typical that shipments quality complying with statistics published here. GeoTrans keeps the right of data changes and the final explanation right, data changes may happens at any point in time in pursuit of continued product quality R&D without having any liability whatsoever to any of the outside parties or for making any prior notifications thereof.

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