

## TMP GEOSYNTHETICS –Textured LLDPE Geomembrane

### Introduction

- GM SH series of geomembrane is manufactured from linear low Density Polyethylene resins. The surfaces of both sides are textured.
- The products are manufactured by the technology of coextrusion–blown triple layer.

### Performance

- Excellent physical and mechanical performance, high tearing resistance;good deformation adaptability, high puncture resistance;
- High aging resistance, high UV resistance, anti–acid & alkali;
- Excellent low & high temperature resistance, innocuous, long life span;
- Perfect water proof performance, seepage and humidity resistance.

### Applications

- The projects of Landfill site, bank, dam, storage reservoir, channel, irrigation, highway, railway, tunnel, drinking tank, salt field bittern pan, chemical liquid storage, treatment tank, artificial lake and riverway etc.

### Specifications

| Properties        | Test Method | GM TLL050  | GM TLL075  | GM TLL100  | GM TLL125  |
|-------------------|-------------|------------|------------|------------|------------|
| ■ Thickness       | ASTM D5199  | 0.5 mm     | 0.75 mm    | 1.00 mm    | 1.25 mm    |
| ■ Density         | ASTM D1505  | 0.940 g/cc | 0.940 g/cc | 0.940 g/cc | 0.940 g/cc |
| ■ Asperity Height | ASTM D7466  | 0.25 mm    | 0.25 mm    | 0.25 mm    | 0.25 mm    |

### Tensile Properties

|                                         |            |          |          |          |          |
|-----------------------------------------|------------|----------|----------|----------|----------|
| ■ Break strength                        | ASTM D6693 | 5 kN/m   | 9 kN/m   | 11 kN/m  | 13 kN/m  |
| ■ Break elongation                      | Type IV    | 250%     | 250%     | 250%     | 250%     |
| ■ Tear Resistance                       | ASTM D1004 | 50 N     | 70 N     | 100 N    | 120 N    |
| ■ Axi–Symmetric Break Resistance Strain | ASTM D5617 | 30%      | 30%      | 30%      | 30%      |
| ■ Puncture Resistance                   | ASTM D4833 | 100 N    | 150 N    | 200 N    | 250 N    |
| ■ Carbon Black Content                  | ASTM D1603 | 2.0%     | 2.0%     | 2.0%     | 2.0%     |
| ■ Oxidative Induction Time (OIT)        | ASTM D3895 | 100 min. | 100 min. | 100 min. | 100 min. |
|                                         | ASTM D5885 | 400 min. | 400 min. | 400 min. | 400 min. |

### Dimensions

|                   |     |     |    |    |
|-------------------|-----|-----|----|----|
| ■ Roll Width (m)  | 7   | 7   | 7  | 7  |
| ■ Roll Length (m) | 100 | 100 | 50 | 50 |

## TMP GEOSYNTHETICS –Textured LLDPE Geomembrane

| Properties                              | Test Method | GM TLL150  | GM TLL200  | GM TLL250  | GM TLL300  |
|-----------------------------------------|-------------|------------|------------|------------|------------|
| ■ Thickness                             | ASTM D5199  | 1.50 mm    | 2.00 mm    | 2.50 mm    | 3.00 mm    |
| ■ Density                               | ASTM D1505  | 0.940 g/cc | 0.940 g/cc | 0.940 g/cc | 0.940 g/cc |
| ■ Asperity Height                       | ASTM D7466  | 0.25 mm    | 0.25 mm    | 0.25 mm    | 0.25 mm    |
| <b>Tensile Properties</b>               |             |            |            |            |            |
| ■ Break strength                        | ASTM D6693  | 16 kN/m    | 21 kN/m    | 26 kN/m    | 31 kN/m    |
| ■ Break elongation                      | Type IV     | 250%       | 250%       | 250%       | 250%       |
| ■ Tear Resistance                       | ASTM D1004  | 150 N      | 200 N      | 350 N      | 300 N      |
| ■ Axi-Symmetric Break Resistance Strain | ASTM D5617  | 30%        | 30%        | 30%        | 30%        |
| ■ Puncture Resistance                   | ASTM D4833  | 300 N      | 400 N      | 500 N      | 600 N      |
| ■ Carbon Black Content                  | ASTM D1603  | 2.0%       | 2.0%       | 2.0%       | 2.0%       |
| ■ Oxidative Induction Time (OIT)        | ASTM D3895  | 100 min.   | 100 min.   | 100 min.   | 100 min.   |
|                                         | ASTM D5885  | 400 min.   | 400 min.   | 400 min.   | 400 min.   |
| <b>Dimensions</b>                       |             |            |            |            |            |
| ■ Roll Width (m)                        |             | 7          | 7          | 7          | 7          |
| ■ Roll Length (m)                       |             | 50         | 50         | 50         | 50         |