

# Shield GeoTex 180

## Non-Woven Geotextile



MICSHIELD®

### Description

**Shield GeoTex 180** is polypropylene based, needle-punched, thermally-bonded nonwoven geotextile that forms a strong, dimensionally stable, and durable fabric. Designed to provide excellent separation, filtration, and protection performance for various geotechnical and civil engineering applications.

### Uses

- Used as a filter, allowing water to pass while retaining soil particles.
- Used for soil stabilization in road, railway, basins and dams construction.
- Works as a moisture barrier when impregnated with asphalt or resin.
- Provides separation between different soil or aggregate layers.
- Serves as a drainage layer for water and gas movement within the soil.
- Applied in landfills, landscaping, and drainage systems as a separator and filter.
- Offers protection to waterproofing membranes and floors.

### Characteristics / Advantages

- Lightweight and easy to handle, cut, and install on site.
- High permeability.
- Resistant to UV radiation and chemicals.
- High tensile strength.
- High elongation.
- Dimensional stability under stress.
- Flexibility and long durability.

### Shelf Life and Storage

**Shield GeoTex 180** has an unlimited shelf life when stored in cool and dry conditions, protected from direct sunlight, heat, and moisture. The storage area should be free from any equipment that generates ozone.

### Properties

|                                                               |                        |
|---------------------------------------------------------------|------------------------|
| Color                                                         | White                  |
| Roll Width                                                    | 3 or 6 m               |
| Roll Length                                                   | 200 m                  |
| Wight per unit area (EN ISO 9864)                             | 180 g/m <sup>2</sup>   |
| Thickness @2 kPa (EN ISO-9863-1(A))                           | 1.6 mm                 |
| Tensile Strength MD (EN ISO 10319)                            | 14 kN/m                |
| Tensile Strength CD (EN ISO 10319)                            | 14 kN/m                |
| Tensile Elongation MD (EN ISO 10319)                          | 55%                    |
| Tensile Elongation CD (EN ISO 10319)                          | 60%                    |
| Static Puncture Resistance (EN ISO 12236)                     | 2400 N                 |
| Dynamic Perforation Resistance (EN ISO 13433)                 | 24 mm                  |
| Characteristic Opening Size (EN ISO 12956)                    | 70 microns             |
| Water Permeability Normal to the plane 50mm WH (EN ISO 11058) | 75 L/m <sup>2</sup> /s |
| UV Resistance @ 500 h (EN 12224 )                             | >70 %                  |
| Durability Oxidation Resistance (EN ISO 13438)                | Up to 25 years         |

### Technical Support

Refer to contacting technical information, method statement or technical support team for any inquiry.

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