



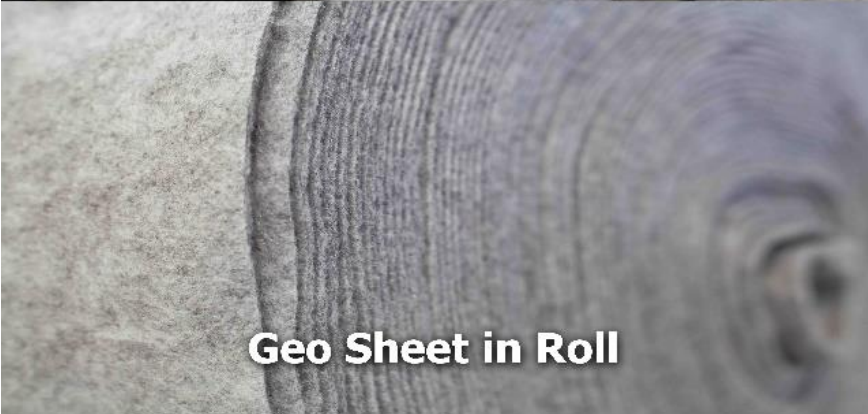
B. J. GEO-TEXTILE LIMITED



Geo Textile Production Line



Geo Textile Sheet in Production



Geo Sheet in Roll





NON-WOVEN POLYPROPYLENE NEEDLE-PUNCHED FABRIC

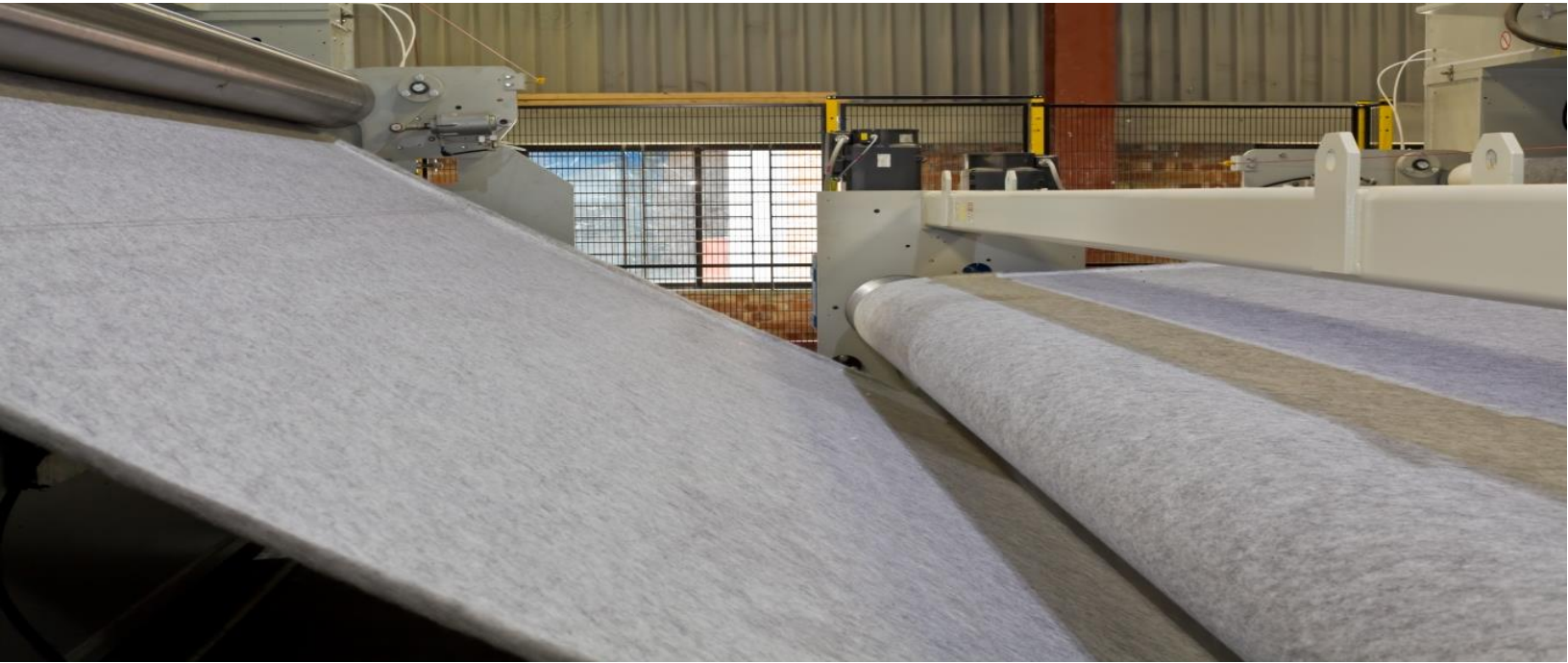
Probably the most popular form of permeable geotextile membrane, generally thanks to the high performance to cost ratio it offers. As aforementioned, non-woven is best suited for separation and filtration, but there are very few applications where it cannot be utilized. **B. J. GEO-TEXTILE LIMITED** offers a wide range of strengths and thicknesses available from stock, meaning your solution is always on hand.



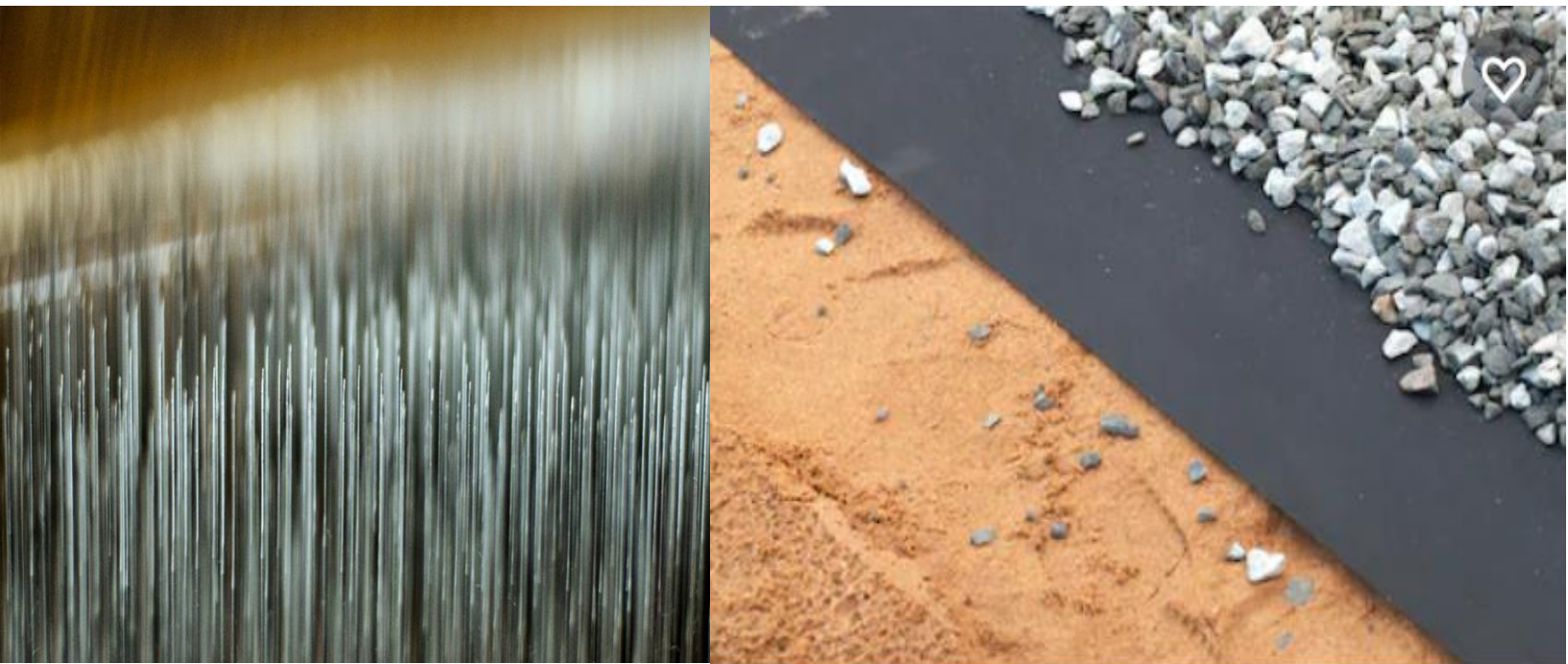
Non-Woven geotextile membranes are used to provide porous separation between different layers in the ground, such as surface to sub-base or sub-base to sub-grade. They also, typically, offer great filtration properties to allow water to drain naturally into the ground, as opposed to pouring into drains and gutters which can potentially overflow and impact flooding. Thicker non-woven fabrics are used as protection for impermeable geomembranes in attenuation tanks or damp-proofing areas. Also referred to as fibre membranes, non-woven geotextiles are manufactured by orientated filaments, either randomly or directionally. This is usually done via a thermal bonding process. More heavy duty grades are also needle punched to provide greater strength and resilience.

We manufacture best quality Non-woven polypropylene and is made from spinning polypropylene material together using heat and air and then pressing it between hot rollers to create a flexible, solid plastic fabric. The resulting non-woven polypropylene fabric is more breathable and durable than any other fabric. **B. J. GEO-**

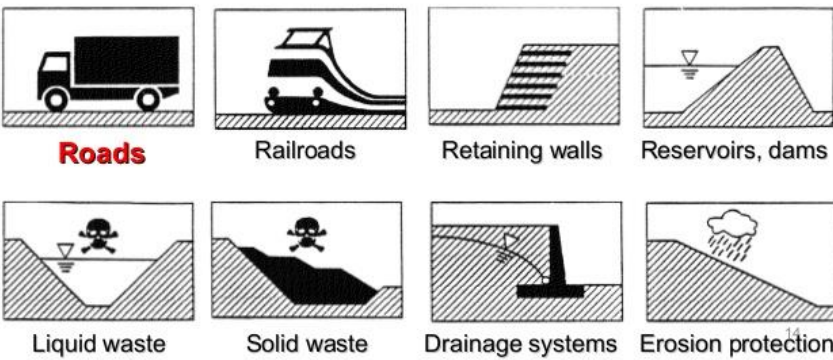
TEXTILE LIMITED uses Needle punching method which is a nonwoven process by which the fibres are mechanically entangled to produce a nonwoven fabric by repeated penetration of barbed needles through a preformed dry fibrous web. As a result, the fibres are mechanically interlocked, thereby providing the mechanical strength.



B. J. GEO-TEXTILE LIMITED offers top-notch quality Needle-punched nonwovens that are felt-like and very flexible, having a fibrous network with distinctive pores, which makes them suitable for applications in filtration and drainage. Our produced Needle-punched nonwovens are commonly used in geotextile sector for applications like offering cushioning and reinforcement against subgrade surface irregularities. We prefer Polypropylene Fabric as it is a modern textile used for upholstery, industrial, and manufacturing applications. It is soft, lightfast, and easy to clean because polypropylene has no active dye sites.



Applications of Geotextile :



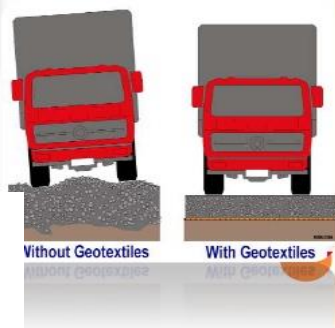
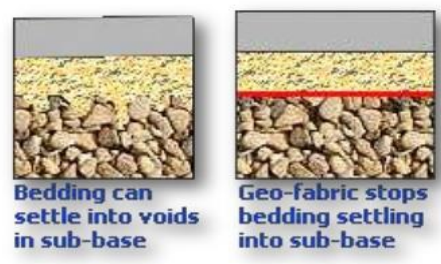
WHY CHOOSE US?

B. J. GEO-TEXTILE LIMITED is one of the largest private sector industrial enterprises in technical textile. It is an innovation focused manufacturer in Bangladesh, which makes products that gain competitive advantages in the international market along with having industrial portfolio that includes geo-textile, weaving, home textile & other diversified technical textile products, where the Geo-textile is the flagship entity manufacturing the highest number of geo-textile & needle punch products.

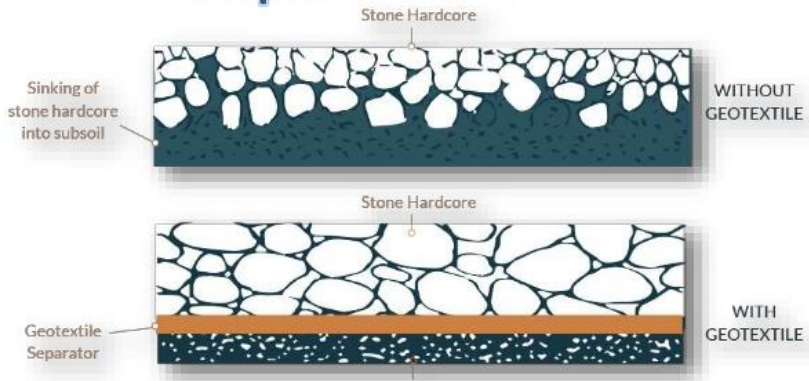


Geotextile Main Application:
Roadbed Reinforcement and Protection

APPLICATIONS OF GEOTEXTILE AS SEPARATOR



Separation:



- Geotextile acts as a separator by preventing the intermixing of coarse and fine soil materials allowing the free flow of water across the same.





Geo Bag



Geo Bag placed for Bank protection



Road Stabilization with Geotextile Fabric



Dumping of Geo Bag

We've been at the bleeding edge of geotextile application plan since long time. With over 25 years' involvement within the industry, we offer a comprehensive run of needle-punched nonwoven geotextiles, typically made from polypropylene and polyester, alongside high-performance home textile products.

Fabricated in Bangladesh, all of our geotextile fabrics are specifically designed for performance, providing the industry with excellent mechanical and hydraulic properties for a wide variety of construction and civil engineering applications.

As a showcase pioneer in this sector, our non-woven grades have a demonstrated record in a wide run of applications such as the construction of access, temporary or permanent roads, car parks, drainage systems, and ground stabilization.

Our needle-punched nonwoven geotextiles, beyond any doubt are perfect for utilizing in narrow trench drains, as well as Sustainable Urban Drainage Systems (SUDS) in attenuation systems for both infiltration and membrane protection. Specialized grades are also available for hazard identification, flood protection, and floating access roads for challenging sites such as wind farms.

With a variety of geotextile products available, we are sure that we will offer the culminate arrangement to meet a different extend of venture prerequisites. We moreover can give choices to most nonwoven geotextile details - offering you choice and flexibility to design a solution that meets the technical and commercial requirements of every contract.

We know the fact that frequently the leading geotextile arrangement requires a combination of materials and our specialized group is accessible to assist with the determination and detail of our items. We too give a cost-effective plan component for all of our items to guarantee simply select the proper item for your project necessities.



Non-woven Needle Punched Synthetic Polyester (PET) Geo-Textile Product Range

Product Data Sheet of Polyester (PET) Geo-Textile Product

| B. J. Geo-Textile Limited | | | BJ180 | BJ200 | BJ250 | BJ300 | BJ350 | BJ400 | BJ450 | BJ500 | BJ550 |
|-------------------------------------|----------------|------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Physical Properties | | | | | | | | | | | |
| Weight | EN ISO 9864 | g/m ² | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 |
| Thickness at 2 kPa | EN ISO 9863-1 | mm | 2 | 2 | 2.5 | 3 | 3.5 | 3.5 | 3.5 | 4 | 4 |
| Mechanical Properties | | | | | | | | | | | |
| Static puncture (CBR-test) | EN ISO 12236 | N | 1000 | 1000 | 1200 | 1500 | 1600 | 1800 | 2000 | 2200 | 2500 |
| Strip Tensile strength | EN ISO 10319 | kN/m | 5 | 7 | 7 | 9 | 9 | 12 | 12 | 15 | 15 |
| Strip Tensile Elongation | EN ISO 10319 | % | 80/85 | 80/85 | 80/85 | 80/85 | 80/85 | 80/85 | 80/85 | 80/85 | 80/85 |
| Grab Tensile Strength | ASTM D4632 | N | 200 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 |
| Grab Tensile Elongation | ASTM D4632 | % | 80/90 | 80/90 | 80/90 | 80/90 | 80/90 | 80/90 | 80/90 | 80/90 | 80/90 |
| Trapezoid Tearing Strength | ASTM D4533 | N | 100 | 100 | 120 | 120 | 150 | 150 | 200 | 250 | 300 |
| Index Puncture Resistance | ASTM D4833 | N | 150 | 200 | 220 | 250 | 300 | 350 | 450 | 550 | 600 |
| UV Weathering resistance | ASTM D 4355 | % | ≥70% of original tensile strength. | | | | | | | | |
| Abrasion | ISO/TC 221/SC | % | Tensile strength ≥75% of specified tensile strength, O90 ≤ 90μm | | | | | | | | |
| Oxidation Resistance | ISO 13438:2018 | % | ≥ 50% of original tensile strength before immersion | | | | | | | | |
| Hydraulic Properties | | | | | | | | | | | |
| Horizontal Permeability at 50 mm WH | EN ISO 11058 | 10 ⁻³ m/sec | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Vertical Permeability at 50 mm WH | EN ISO 11058 | 10 ⁻³ m/sec | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Effective Opening Size (EOS), O90% | EN ISO 12956 | mm | 0.14 | 0.14 | 0.14 | 0.12 | 0.11 | 0.10 | 0.09 | 0.08 | 0.08 |
| Standard Dimensions | | | | | | | | | | | |
| Width | | m | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 |
| Length | | m | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Above technical values are mean values based on measurements in current production and test results from independent test institutes.

Head Office:

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 e-mail: info@bangjin.com

Our Certifications



Non-woven Needle Punched Synthetic Polypropylene (PP) Geo-Textile Product Range

Product Data Sheet of Polypropylene (PP) Geo-Textile Product

| B. J. Geo-Textile Limited | | | BJ130 | BJ150 | BJ180 | BJ200 | BJ250 | BJ300 | BJ350 | BJ400 | BJ450 | BJ500 | BJ600 | BJ800 | BJ1000 |
|-------------------------------------|---------------------------------|------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Physical Properties | | | | | | | | | | | | | | | |
| Weight | EN ISO 9864 | g/m ² | 130 | 150 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 800 | 1000 |
| Thickness at 2 kPa | EN ISO 9863-1 | mm | 1.2 | 1.2 | 1.5 | 1.8 | 2.0 | 2.5 | 2.8 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 |
| Mechanical Properties | | | | | | | | | | | | | | | |
| Static puncture (CBR-test) | EN ISO 12236 | N | 400 | 600 | 700 | 900 | 1500 | 2500 | 3200 | 3800 | 4000 | 5000 | 6000 | 6800 | 7500 |
| Strip Tensile strength | EN ISO 10319 | kN/m | 5 | 6 | 7 | 8 | 10 | 15 | 18 | 20 | 23 | 25 | 30 | 35 | 40 |
| Strip Tensile | EN ISO 10319 | % | 80/85 | 80/85 | 80/85 | 80/85 | 80/75 | 80/75 | 80/75 | 80/75 | 80/75 | 80/75 | 80/75 | 80/75 | 80/75 |
| Grab Tensile Strength | ASTM D4632 | N | 250 | 380 | 400 | 450 | 550 | 1000 | 1300 | 1500 | 1700 | 1800 | 2000 | 2200 | 2500 |
| Grab Tensile | ASTM D4632 | % | 80/90 | 80/90 | 80/85 | 80/85 | 75/80 | 75/80 | 75/80 | 75/80 | 75/80 | 75/80 | 75/80 | 75/80 | 75/80 |
| Index Puncture | ASTM D4833 | N | 200 | 220 | 250 | 300 | 350 | 450 | 550 | 600 | 700 | 750 | 850 | 950 | 1000 |
| UV Weathering | ASTM D 4355 | % | ≥70% of original tensile strength. | | | | | | | | | | | | |
| Abrasion | ISO/TC 221/SC N (ISO/WI:2016 E) | % | Tensile strength ≥75% of specified tensile strength, O90 ≤ 90µm | | | | | | | | | | | | |
| Oxidation Resistance | ISO 13438:2018 | % | ≥ 50% of original tensile strength before immersion | | | | | | | | | | | | |
| Hydraulic Properties | | | | | | | | | | | | | | | |
| Horizontal Permeability at 50 mm WH | EN ISO 11058 | 10 ⁻³ m/sec | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Vertical Permeability at 50 mm WH | EN ISO 11058 | 10 ⁻³ m/sec | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Effective Opening Size (EOS), O90% | EN ISO 12956 | mm | 0.14 | 0.14 | 0.12 | 0.11 | 0.10 | 0.09 | 0.08 | 0.08 | 0.08 | 0.07 | 0.06 | 0.06 | 0.06 |
| Standard Dimensions | | | | | | | | | | | | | | | |
| Width | | m | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 |
| Length | | m | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Above technical values are mean values based on measurements in current production and test results from independent test institutes.

Our Certifications



We're here to help...



Get in touch



B. J. GEO-TEXTILE LIMITED holds Bangladesh and overseas manufacture and distribution rights for the world class geotextile fabrics. The company also focuses on best quality home textile ranges. These two sectors of **B. J. GEO-TEXTILE LIMITED** put the company in a strong position to cater to the needs of contractors, merchants and end users across the industry.

Details of these ranges can be obtained via **B. J. GEO-TEXTILE LIMITED** directly:



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