



PPEXT Polypropylene - nonwoven virgin fibre - second strength geotextile fabric

| Physical Properties | test method | unit | 100 | 120 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 800 | 1000 | 1200 | 1500 | Tolerance | | |
|---|---|--|------|-----|------|------|------|------|------|------|------|------|------|------|------|-----------|-----|-----|
| Weight | | g/m ² | 100 | 120 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 800 | 1000 | 1200 | 1500 | ± | 10% | |
| Thickness | EN ISO 9863-1 | mm | 0.7 | 0.8 | 1.00 | 1.30 | 1.60 | 1.80 | 2.50 | 3.30 | 3.60 | 4.40 | 5.50 | 7.00 | 8.50 | ± | 20% | |
| Mechanical Properties | | | | | | | | | | | | | | | | | | |
| Tensile Strength | md | EN ISO 10319 | kN/m | 2.0 | 2.7 | 3.5 | 4.5 | 6.0 | 9.0 | 10.0 | 12.0 | 18.0 | 24.0 | 30.0 | 35.0 | 40.0 | - | 15% |
| | cmd | EN ISO 10319 | kN/m | 2.5 | 3.2 | 4.0 | 5.5 | 8.0 | 11.0 | 14.0 | 18.0 | 22.0 | 32.0 | 40.0 | 45.0 | 50.0 | - | 15% |
| Elongation at max load | md | EN ISO 10319 | % | 70 | 70 | 70 | 70 | 80 | 80 | 80 | 80 | 80 | 90 | 90 | 95 | 95 | ± | 25% |
| | cmd | EN ISO 10319 | % | 80 | 80 | 80 | 80 | 85 | 85 | 85 | 90 | 90 | 95 | 100 | 100 | 100 | ± | 25% |
| Energy index | EN ISO 10318 | kJ/m ² | 0.8 | 1.1 | 1.4 | 1.9 | 2.9 | 4.1 | 5.0 | 6.4 | 8.5 | 13.3 | 16.6 | 19.5 | 21.9 | ± | 25% | |
| Static puncture resistance | EN ISO 12236 | kN | 0.4 | 0.5 | 0.9 | 0.9 | 1.3 | 1.5 | 1.8 | 2.5 | 3.6 | 4.8 | 6.0 | 8.0 | 10.0 | - | 10% | |
| Dynamic puncture resistance (cone drop test) | EN ISO 13433 | mm | >50 | >50 | 36 | 28 | 22 | 18 | 14 | 10 | 6 | 2 | 1 | 0 | 0 | + | 25% | |
| Pyramid puncture resistance | EN 14574 | N | n/a | n/a | n/a | 150 | 200 | 300 | 340 | 400 | 500 | 700 | 1100 | 1400 | 1600 | - | 20% | |
| Hydraulic properties | | | | | | | | | | | | | | | | | | |
| Permeability normal to the plane | EN ISO 11058 | mm/s | 110 | 100 | 80 | 70 | 50 | 35 | 25 | 20 | 20 | 20 | 20 | 20 | 20 | - | 30% | |
| In-plane flow capacity | EN ISO 12958 | 10 ⁻³ l/ms | 0.6 | 0.8 | 1.2 | 1.8 | 2.0 | 2.2 | 2.6 | 3.5 | 4.5 | 5.3 | 6.0 | 6.3 | 7.0 | - | 30% | |
| Durability properties | | | | | | | | | | | | | | | | | | |
| Weathering resistance | EN 12224 | Passes EN 12224 weathering test. It is highly recommended that the geotextile is covered within 15 days from the day of installation. The material can be exposed to sunlight with a degradation of the mechanical properties depending on season. | | | | | | | | | | | | | | | | |
| Product Composition | Made from polypropylene virgin fibre. Specific weight of polymer is 0.91 kg/dm ³ . Raw material is staple fibres, produced through needlepunching and calendering. Melting point is 165-175 °C. The material is produced according the quality management system of EN ISO 9001:2008. It fulfills the requirement of European regulations related to construction products as per 1213-CPR 3269. | | | | | | | | | | | | | | | | | |
| Oxydation resistance | EN ISO 13438 | Forecast minimum durability of 5 years for all non-reinforcement application in natural grounds with 4<pH<9 and soil temperature <25°C | | | | | | | | | | | | | | | | |

The values given are an average obtained in our laboratories and in official testing insitutes

The confidence level is 95%

We reserve the right to make changes at any time without notice.



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