

P range Technical Data



TenCate Bidim® P are 100% polypropylene continuous-filament needle punched nonwoven geotextiles.
9 ASQUAL certified products.



TenCate Bidim® P

| Properties [Standard] | Symbol | Unit | P20 | P30 | P40 | P50 | P60 | P70 | P80 | P100S | P120 | |
|--|--------|------------------------------------|------------------|------|-------|-------|-------|-------|------|-------|-------|------|
| ASQUAL certified geotextiles | | | | | | | | | | | | |
| Certified values according to the function** | | | | | | | | | | | | |
| Filtration | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Protection | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Separation | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Drainage / Filtration | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Reinforcement | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| Tensile strength | MD* | T _{max} | kN/m | 16 | 20 | 27 | 36 | 43 | 48 | 55 | 68 | 75 |
| [EN ISO 10319] | CD* | T _{max} | kN/m | 16 | 20 | 27 | 36 | 43 | 48 | 55 | 68 | 75 |
| Elongation at max. load | MD* | ε _{max} | % | 80 | 80 | 85 | 85 | 91 | 90 | 95 | 100 | 105 |
| [EN ISO 10319] | CD* | ε _{max} | % | 68 | 70 | 75 | 70 | 72 | 70 | 75 | 95 | 100 |
| Dynamic perforation [EN ISO 13433] | | P _d | mm | 20 | 15 | 11 | 9 | 7.5 | 7 | 5.5 | 3.9 | 3 |
| Puncture resistance [ENF 38019] | | P _s | kN | 1.1 | 1.6 | 2.1 | 2.5 | 3.1 | 3.5 | 4 | 5.6 | 6.2 |
| CBR puncture resistance [EN ISO 12236] | | P _{CBR} | kN | 2.4 | 3.5 | 4.5 | 5.8 | 7 | 7.8 | 9 | 11 | 11 |
| Permeability normal to the plane [EN ISO 11058] (Δh = 50 mm) | | V _{H50} | m/s | 0.09 | 0.075 | 0.055 | 0.045 | 0.035 | 0.03 | 0.02 | 0.015 | 0.01 |
| Characteristic opening size [EN ISO 12956] | | O _{90,w} | μm | 110 | 85 | 85 | 95 | 85 | 90 | 80 | 75 | 65 |
| Water flow capacity in the plane 20 kPa [EN ISO 12958] | Q / I | 10 ⁻⁷ m ² /s | | 15 | 26 | 39 | 55 | 71 | 90 | 110 | 110 | 110 |
| 100 kPa | Q / I | 10 ⁻⁷ m ² /s | | 4.0 | 6.6 | 11 | 16 | 23 | 31 | 41 | 41 | 41 |
| Mass per unit area [EN ISO 9864] | | μ _{GT} | g/m ² | 205 | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 |
| Thickness under 2 kPa [EN ISO 9863-1] | | t _{GT} | mm | 2.0 | 2.8 | 3.4 | 4.5 | 4.8 | 5.7 | 6.3 | 7.5 | 8.3 |
| Specific properties related to the protection function*** | | | | | | | | | | | | |
| Protection efficiency [EN 13719 - Deformation at 300 kPa] | | % | | 2.3 | 2 | 1.8 | 1.6 | 1.3 | 1.1 | 0.9 | 0.7 | 0.6 |
| Forms of supply**** | | | | | | | | | | | | |
| Width | | m | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5.4 | 5.2 |
| Length | | m | | 220 | 120 | 100 | 80 | 65 | 55 | 50 | 40 | 35 |
| Area | | m ² | | 1320 | 720 | 600 | 480 | 390 | 330 | 300 | 216 | 182 |

* MD = Machine Direction, CD = Cross Direction

** See certified tolerances in the Asqual certificate

*** Certified values in accordance with CE marking. See certified tolerances on the declaration of performance

**** See TenCate Geosynthetics France S.A.S. general terms of sales. Attention! The right is reserved to make changes without notice at any time. Please check that you have at your disposal the latest edition of the technical data sheet.