

Technical Data

polyfelt.TS

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polyfelt.TS geotextiles are mechanically bonded continuous filament nonwovens from 100% UV stabilized polypropylene. They are characterized by a high resistance to installation damage, high water permeability and increased UV resistance.

| Properties <i>[Standard]</i> | Unit | TS 10 (4.01) | TS 20 (4.51) | TS 30 (4.01) | TS 40 | TS 50 | TS 60 | TS 65 | TS 70 | TS 80 | |
|--|-------|--------------------|-----------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
| Mechanical Properties | | | | | | | | | | | |
| Tensile strength <i>[EN ISO 10319]</i> | MD | kN/m | 7.5 | 9.0 | 11.5 | 13.5 | 15.0 | 19.0 | 21.5 | 24.0 | 28.0 |
| | CD | kN/m | 7.5 | 10.0 | 11.5 | 13.5 | 15.0 | 19.0 | 21.5 | 24.0 | 28.0 |
| Elongation at maximum load <i>[EN ISO 10319]</i> | MD | % | 90 | 90 | 90 | 100 | 100 | 100 | 100 | 100 | 100 |
| | CD | % | 75 | 65 | 75 | 40 | 40 | 40 | 40 | 40 | 40 |
| Static puncture resistance (CBR-Test) <i>[EN ISO 12236]</i> | | N | 1200 | 1500 | 1750 | 2100 | 2350 | 2900 | 3300 | 3850 | 4250 |
| Cone drop test (hole-Ø) <i>[EN 918]</i> | | mm | 28 | 24 | 20 | 25 | 22 | 19 | 17 | 15 | 14 |
| Hydraulic Properties | | | | | | | | | | | |
| Permeability vertical <i>[EN ISO 11058 (Δh = 50 mm)]</i> | | l/m ² s | 130 | 115 | 100 | 100 | 90 | 80 | 70 | 60 | 55 |
| Opening size O ₉₀ <i>[EN ISO 12956]</i> | | µm | 105 | 105 | 100 | 100 | 100 | 95 | 95 | 90 | 90 |
| Identification Properties | | | | | | | | | | | |
| Thickness <i>[EN 964-1]</i> | 2 kPa | mm | 0.9 | 1.0 | 1.2 | 1.7 | 1.9 | 2.2 | 2.5 | 2.9 | 3.2 |
| Mass per unit area <i>[EN 965]</i> | | g/m ² | 105 | 125 | 155 | 180 | 200 | 250 | 285 | 325 | 385 |
| Forms of Supply | | | | | | | | | | | |
| Width | | m | 2 / 4 | 4.5 | 2 / 4 | 2 / 4 | 2 / 4 | 2 / 4 | 2 / 4 | 2 / 4 | 2 / 4 |
| Length | | m | 300 | 100 | 225 | 200 | 175 | 135 | 125 | 100 | 90 |

The values given are average values obtained in our laboratories and in testing institutes. The right is reserved to make changes without notice at any time.

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