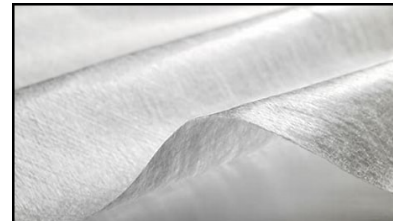


# Polyfelt TS

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



| Properties   | Test method   | Unit           | TS10<br>(4.01) | TS20<br>(4.01) | TS30<br>(4.01) | TS40  | TS50  | TS60  | TS65  | TS70  | TS80 |
|--|---------------|----------------|----------------|----------------|----------------|-------|-------|-------|-------|-------|------|
| <b>Mechanical Properties</b>                           |               |                |                |                |                |       |       |       |       |       |      |
| Tensile strength (MD*)                                 | EN ISO 10319  | kN/m           | 8              | 10             | 12             | 14    | 16    | 20    | 22    | 25    | 29   |
| Tensile strength (CMD*)                                | EN ISO 10319  | kN/m           | 8              | 10             | 12             | 14    | 16    | 20    | 22    | 25    | 30   |
| Elongation at max. load (MD*)                          | EN ISO 10319  | %              | 90             | 90             | 90             | 95    | 95    | 95    | 95    | 95    | 95   |
| Elongation at max. load (CMD*)                         | EN ISO 10319  | %              | 75             | 75             | 75             | 46    | 46    | 46    | 46    | 46    | 46   |
| Energy absorption ((MD*+CMD*)/2)                       | EN ISO 10319  | kN/m           | 3.5            | 4.3            | 5.0            | 5.8   | 6.2   | 8.0   | 9.0   | 10.5  | 12.5 |
| CBR puncture resistance                                | EN ISO 12236  | kN             | 1.24           | 1.50           | 1.80           | 2.10  | 2.35  | 3.05  | 3.35  | 3.85  | 4.40 |
| Dynamic perforation (cone drop)                        | EN ISO 13433  | mm             | 26             | 24             | 20             | 24    | 22    | 19    | 17    | 15    | 13   |
| <b>Hydraulic Properties</b>                            |               |                |                |                |                |       |       |       |       |       |      |
| Permeability normal to the plane ( $\Delta h = 50$ mm) | EN ISO 11058  | mm/s           | 140            | 125            | 105            | 125   | 115   | 90    | 85    | 80    | 75   |
| Characteristic opening size (O90)                      | EN ISO 12956  | $\mu\text{m}$  | 130            | 115            | 100            | 100   | 100   | 95    | 95    | 90    | 90   |
| <b>Identification Properties</b>                       |               |                |                |                |                |       |       |       |       |       |      |
| Thickness at 2 kPa load                                | EN ISO 9863-1 | mm             | 0.80           | 0.90           | 1.20           | 1.80  | 1.90  | 2.40  | 2.50  | 2.90  | 3.30 |
| Mass per unit area                                     | EN ISO 9864   | $\text{g/m}^2$ | 105            | 125            | 155            | 180   | 200   | 260   | 285   | 325   | 385  |
| <b>Form of Supply</b>                                  |               |                |                |                |                |       |       |       |       |       |      |
| Width x Length   |               | m              | 2x300          | 2x250          | 2x225          | 2x200 | 2x175 | 2x135 | 2x125 | 2x100 | 2x90 |
|  |               | m              | 4x300          | 4x250          | 4x225          | 4x200 | 4x175 | 4x135 | 4x125 | 4x100 | 4x90 |

#### Notes

\* MD = Machine Direction, CMD = Cross Machine Direction

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.

#### Certification and Accreditation



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