



Verdatex SNW 14 - 31 uv

Superior Needle Punched Nonwoven Geotextile Specification

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| | Test | Units | SNW 14 | SNW 17 | SNW 25 | SNW 25 uv | SNW 31 | SNW 31 uv |
|--|--------------|-------|--------|--------|--------|-----------|--------|-----------|
| Mechanical Properties | | | | | | | | |
| Tensile strength - MD | EN ISO 10319 | kN/m | 8 | 10.3 | 14 | 14 | 17.8 | 17.8 |
| Tensile strength - CMD | EN ISO 10319 | kN/m | 8 | 10.3 | 14 | 14 | 17.8 | 17.8 |
| Elongation at break - MD | EN ISO 10319 | % | 40 | 45 | 45 | 45 | 50 | 50 |
| Elongation at break - CMD | EN ISO 10319 | % | 55 | 55 | 55 | 55 | 55 | 55 |
| Static puncture resistance (CBR) | EN ISO 12236 | kN | 1.4 | 1.7 | 2.5 | 2.5 | 3.1 | 3.1 |
| Dynamic perforation resistance (cone drop) | EN ISO 13433 | mm | 28 | 22 | 18 | 18 | 13 | 13 |

Hydraulic Properties

| | | | | | | | | |
|--|--------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|
| Water permeability normal to the plane | EN ISO 11058 | l/m ² s | 110 | 100 | 80 | 80 | 70 | 70 |
| Waterflow in the plane @20 kPa | EN ISO 12958 | m ² /s | 1x10 ⁻⁷ | 1x10 ⁻⁷ | 1.0x10 ⁻⁶ | 1.0x10 ⁻⁶ | 2.0x10 ⁻⁶ | 2.0x10 ⁻⁶ |
| Characteristic opening size (O90) | EN ISO 12956 | µm | 120 | 110 | 100 | 100 | 95 | 95 |

Physical Properties

| | | | | | | | | |
|-----------------------------|---------------|------------------|-------|-------|-------|-------|-------|-------|
| Thickness under 2 kPa | EN ISO 9863-1 | mm | 1.2 | 1.5 | 1.8 | 1.8 | 2.2 | 2.2 |
| Weight | EN ISO 9864 | g/m ² | 120 | 150 | 200 | 200 | 250 | 250 |
| Roll width | | m | 5.25 | 5.25 | 5 | 4.4 | 5.25 | 4.4 |
| Roll length | | m | 100 | 100 | 100 | 100 | 100 | 100 |
| Truck load volume (+/- 10%) | | m ² | 57750 | 44625 | 34125 | 26400 | 26775 | 26400 |
| Roll diameter (+/- 10%) | | cm | 35 | 38 | 45 | 43 | 49 | 47 |

Durability

| | | | Description | |
|----------------------------|--------------|------|---------------|--------|
| Natural UV light | ASTM D 4355 | 100% | Polymer | PP |
| Chemical resistance | EN 14030 | 100% | Density | 0.91 |
| Microbiological resistance | EN 12225 | 100% | Melting point | 165 |
| Hydrolysis | EN 12447 | 100% | Construction | Fibres |
| Oxidation resistance | EN ISO 13438 | >90% | | |

The information set forth in this data sheet reflects the best knowledge at the time of publication. The document is subject to change pursuant to new developments and findings. The same reservation applies to the properties of the products described.



No liability is undertaken for results obtained by usage of the products and information.

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Verdatex SNW 40 uv - 70

Superior Needle Punched Nonwoven Geotextile Specification

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| | Test | Units | SNW 40 uv | SNW 46 | SNW 50 sp | SNW 55 | SNW 62 | SNW 70 |
|--|--------------|-------|-----------|--------|-----------|--------|--------|--------|
| Mechanical Properties | | | | | | | | |
| Tensile strength - MD | EN ISO 10319 | kN/m | 22 | 27 | 30 | 33.5 | 37 | 42 |
| Tensile strength - CMD | EN ISO 10319 | kN/m | 22 | 27 | 30 | 33.5 | 37 | 42 |
| Elongation at break - MD | EN ISO 10319 | % | 50 | 50 | 50 | 55 | 60 | 60 |
| Elongation at break - CMD | EN ISO 10319 | % | 55 | 55 | 55 | 60 | 65 | 65 |
| Static puncture resistance (CBR) | EN ISO 12236 | kN | 4 | 4.6 | 5 | 5.5 | 6.2 | 7 |
| Dynamic perforation resistance (cone drop) | EN ISO 13433 | mm | 12 | 10 | 9 | 7 | 5 | 4 |

Hydraulic Properties

| | | | | | | | | |
|--|--------------|--------------------|----------------------|----------------------|--------------------|--------------------|----------------------|--------------------|
| Water permeability normal to the plane | EN ISO 11058 | l/m ² s | 60 | 65 | 50 | 45 | 40 | 35 |
| Waterflow in the plane @ 20 kPa | EN ISO 12958 | m ² /s | 3.0x10 ⁻⁶ | 3.0x10 ⁻⁶ | 1x10 ⁻⁵ | 6x10 ⁻⁶ | 6.5x10 ⁻⁶ | 7x10 ⁻⁶ |
| Characteristic opening size (O90) | EN ISO 12956 | µm | 90 | 85 | 80 | 75 | 72 | 70 |

Physical Properties

| | | | | | | | | |
|-----------------------------|---------------|------------------|-------|--------|-------|-------|-------|-------|
| Thickness under 2 kPa | EN ISO 9863-1 | mm | 2.4 | 2.8 | 3 | 3.2 | 3.5 | 3.8 |
| Weight | EN ISO 9864 | g/m ² | 300 | 370 | 400 | 450 | 500 | 565 |
| Roll width | | m | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| Roll length | | m | 100 | 100/50 | 50 | 75 | 50 | 60 |
| Truck load volume (+/- 10%) | | m ² | 22500 | 18000 | 17325 | 14700 | 14700 | 13860 |
| Roll diameter (+/- 10%) | | cm | 54 | 60/42 | 44 | 58 | 48 | 56 |

Durability

| | | | Description | |
|----------------------------|--------------|------|---------------|--------|
| Natural UV light | ASTM D 4355 | 100% | Polymer | PP |
| Chemical resistance | EN 14030 | 100% | Density | 0.91 |
| Microbiological resistance | EN 12225 | 100% | Melting point | 165 |
| Hydrolysis | EN 12447 | 100% | Construction | Fibres |
| Oxidation resistance | EN ISO 13438 | >90% | | |

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Verdatex SNW 75 - 140

Superior Needle Punched Nonwoven Geotextile Specification

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| | Test | Units | SNW 75 | SNW 80 | SNW 85 | SNW 90 | SNW 100 | SNW 120 | SNW 140 |
|--|--------------|-------|--------|--------|--------|--------|---------|---------|---------|
| Mechanical Properties | | | | | | | | | |
| Tensile strength - MD | EN ISO 10319 | kN/m | 43 | 45 | 50 | 54 | 58 | 70 | 84 |
| Tensile strength - CMD | EN ISO 10319 | kN/m | 43 | 45 | 50 | 54 | 58 | 70 | 84 |
| Elongation at break - MD | EN ISO 10319 | % | 60 | 65 | 70 | 70 | 70 | 70 | 70 |
| Elongation at break - CMD | EN ISO 10319 | % | 65 | 70 | 70 | 70 | 70 | 70 | 70 |
| Static puncture resistance (CBR) | EN ISO 12236 | kN | 7.4 | 8 | 8.5 | 9 | 10 | 11.5 | 14 |
| Dynamic perforation resistance (cone drop) | EN ISO 13433 | mm | 3 | 2 | 2 | 1 | 1 | 0 | 0 |

Hydraulic Properties

| | | | | | | | | | |
|--|--------------|--------------------|--------------------|--------------------|--------------------|----------------------|--------------------|----------------------|--------------------|
| Water permeability normal to the plane | EN ISO 11058 | l/m ² s | 33 | 30 | 29 | 28 | 28 | 20 | 15 |
| Waterflow in the plane @ 20 kPa | EN ISO 12958 | m ² /s | 7x10 ⁻⁶ | 6x10 ⁻⁶ | 8x10 ⁻⁶ | 7.0x10 ⁻⁶ | 8x10 ⁻⁶ | 8.5x10 ⁻⁶ | 9x10 ⁻⁶ |
| Characteristic opening size (O90) | EN ISO 12956 | µm | 68 | 65 | 63 | 60 | 58 | 55 | 49 |

Physical Properties

| | | | | | | | | | |
|-----------------------------|---------------|------------------|-------|-------|-------|-------|-------|------|------|
| Thickness under 2 kPa | EN ISO 9863-1 | mm | 4 | 4.4 | 4.6 | 4.7 | 5 | 6 | 7 |
| Weight | EN ISO 9864 | g/m ² | 600 | 650 | 700 | 750 | 800 | 1000 | 1200 |
| Roll width | | m | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| Roll length | | m | 55 | 55 | 50 | 50 | 50 | 35 | 35 |
| Truck load volume (+/- 10%) | | m ² | 12994 | 12416 | 10500 | 10500 | 10500 | 8085 | 6614 |
| Roll diameter (+/- 10%) | | cm | 55 | 57 | 58 | 58 | 60 | 57 | 62 |

Durability

| | | | Description | |
|----------------------------|--------------|------|---------------|--------|
| Natural UV light | ASTM D 4355 | 100% | Polymer | PP |
| Chemical resistance | EN 14030 | 100% | Density | 0.91 |
| Microbiological resistance | EN 12225 | 100% | Melting point | 165 |
| Hydrolysis | EN 12447 | 100% | Construction | Fibres |
| Oxidation resistance | EN ISO 13438 | >90% | | |

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