

# SNW 31

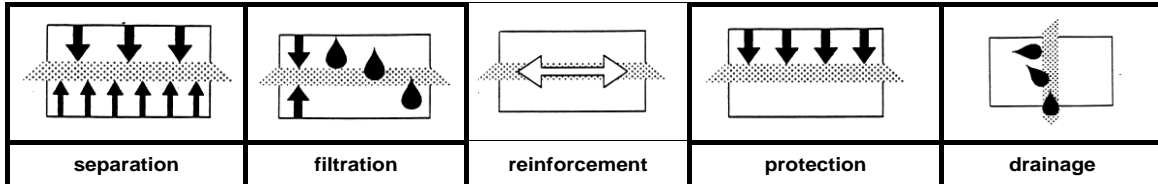
Superior needle punched non-woven polypropylene geotextile

Technical data sheet according to internal specifications Bonar TF: version 05 dd. 10/01/11  
 Accompanying documents CE marking: version 05 dd. 10/01/11



1137-CPD-615

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	test method	value	tolerance
<b>Mechanical properties</b>			
Tensile strength MD	EN ISO 10319	<b>17,8 kN/m</b>	-2,3 kN/m
Tensile strength CD		<b>17,8 kN/m</b>	-2,3 kN/m
Elongation MD	EN ISO 10319	<b>50,0 %</b>	+/-11,5 %
Elongation CD		<b>55,0 %</b>	+/-12,7 %
Static puncture resistance – CBR	EN ISO 12236	<b>3,10 kN</b>	-0,62 kN
Dynamic perforation resistance – cone drop	EN ISO 13433	<b>13,0 mm</b>	+3,3 mm
Pyramid Puncture	EN ISO 14574	<b>275,0 N</b>	-55,0 N
Protection efficiency	EN ISO 13719	<b>1,5 %</b>	-0,3 %
<b>Hydraulic properties</b>			
Water permeability normal to the plane	EN ISO 11058	<b>80x10<sup>-3</sup> m/s</b>	-24x10 <sup>-3</sup> m/s
Water flow normal to the plane (*)		<b>80 l/m<sup>2</sup>.s</b>	-24 l/m <sup>2</sup> .s
Water flow capacity in the plane 20 kPa	EN ISO 12958	<b>7 x10<sup>-6</sup> m<sup>2</sup>/s</b>	-10% log g
Characteristic opening size (AOS)	EN ISO 12956	<b>70,0 µm</b>	+/-21,0 µm
<b>Physical properties</b>			
Thickness under 2 kPa (*)	EN ISO 9863-1	<b>2,20 mm</b>	+/-0,44 mm
Weight (*)	EN ISO 9864	<b>250,0 g/m<sup>2</sup></b>	+/-25,0 g/m <sup>2</sup>
Composition		100 % polypropylene non-woven geotextile	
Durability		predicted to be durable for a minimum of 25 years in natural soil with 4 < pH < 9 and soil temperatures < 25° C	

<b>roads</b> EN 13249:2000	<b>railways</b> EN 13250:2000	<b>foundations &amp; retaining walls</b> EN 13251:2000	<b>drainage systems</b> EN 13252:2000	<b>erosion control systems</b> EN 13253:2000
<b>reservoirs &amp; dams</b> EN 13254:2000	<b>canals</b> EN 13255:2000	<b>Tunnels &amp; underground structures</b> EN 13256:2000	<b>solid waste</b> EN 13257:2000	<b>liquid waste</b> EN 13265:2000

1. This geotextile is intended for use in both functions & applications highlighted with a bold border.
  2. It is the responsibility of all users to satisfy themselves that the above data is current.
  3. Roll dimensions are 5,25 m x 100 m. Other dimensions on demand.
  4. Bonar Technical Fabrics reserves the right to alter product specifications without prior notice.
  5. Although not guaranteed, these results do to the best of our knowledge offer a true and accurate record of the product's performance.
  6. Bonar Technical Fabrics cannot accept responsibility for the performance of these products as the conditions of use are beyond our control.
  7. Geotextile has to be covered within 2 weeks after installation
- (\*) Not mandated characteristics for CE marking.