

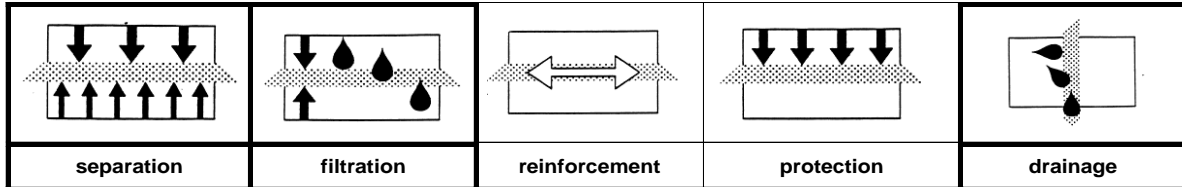
NW 21

Needle punched and thermally bonded non-woven polypropylene geotextile

Technical data sheet according to internal specifications Bonar TF: version 13 dd. 01/12/11
 Accompanying documents CE marking: version 17 dd. 01/01/12



1137-CPD-615
12



	test method	value	tolerance
Mechanical properties			
Tensile strength MD	EN ISO 10319	21,0 kN/m	-2,7 kN/m
Tensile strength CD		21,0 kN/m	-2,7 kN/m
Elongation MD	EN ISO 10319	50,0 %	+/-11,5 %
Elongation CD		50,0 %	+/-11,5 %
Static puncture resistance – CBR	EN ISO 12236	3,50 kN	-0,70 kN
Dynamic perforation resistance – cone drop	EN ISO 13433	15,0 mm	+3,8 mm
Hydraulic properties			
Water permeability normal to the plane	EN ISO 11058	60x10⁻³ m/s	-18x10 ⁻³ m/s
Water flow normal to the plane (*)		60 l/m².s	-18 l/m ² .s
Water flow capacity in the plane 20 kPa	EN ISO 12958	4,0 x10⁻⁶ m²/s	-10% log g
Characteristic opening size (AOS)	EN ISO 12956	65 µm	+/-20 µm
Physical properties			
Thickness under 2 kPa (*)	EN ISO 9863-1	1,50 mm	+/-0,30 mm
Weight (*)	EN ISO 9864	260,0 g/m²	+/-26,0 g/m ²
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		

roads	railways	foundations & retaining walls	drainage systems	erosion control systems
EN 13249:2000	EN 13250:2000	EN 13251:2000	EN 13252:2000	EN 13253:2000
reservoirs & dams	canals	Tunnels & underground structures	solid waste	liquid waste
EN 13254:2000	EN 13255:2000	EN 13256:2000	EN 13257:2000	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.