

GSE Nonwoven NW-P Geotextiles

GSE Nonwoven NW-P Geotextiles are a family of staple fiber needlepunched UV-stabilized polypropylene geotextiles. The geotextiles are manufactured using an advanced manufacturing and quality system to produce the most uniform and consistent nonwoven needlepunched geotextile currently available in the industry. GSE combines a fiber selection and approval system with an in-line quality control and a state-of-the-art laboratory to ensure that every roll shipped meets customer specifications.



AT THE CORE:
A family of geotextiles used for separation, filtration, protection and drainage applications.

Product Specifications

Property ⁽¹⁾	Test Method	Unit	Average Values				
			NW-P 150	NW-P 200	NW-P 300	NW-P 400	NW-P 500
Tensile Strength (MD/CMD)	EN ISO 10319	kN/m	8 / 8	14 / 15	18 / 22	25 / 33	30 / 44
Tensile Elongation (MD/CMD)	EN ISO 10319	%	45 / 45	50 / 50	65 / 65	75 / 75	75 / 75
Static Puncture Strength	EN ISO 12236	N	2,000	2,900	4,000	5,000	6,200
Dynamic Perforation Resistance	EN ISO 13433	mm	28	21	12	10	8
Opening Size, (O ₉₀)	EN ISO 12956	µm	90	70	70	60	60
Water Permeability V _{I_{H50}}	EN ISO 11058	m/sec x 10 ⁻³	110	80	65	40	35
Water Flow Rate	EN ISO 11058	l/m ² /sec	110	80	65	40	35
Thickness (2 kPa)	EN 9863-1	mm	1.5	2.0	2.9	3.9	4.3
Mass per Unit Area	EN 9864	g/m ²	150	200	300	400	500
ENDURANCE							
Weathering Resistance	EN 12224	% retained strength	90	90	90	90	90
Oxidation Resistance	EN ISO 13438	% retained strength	90	90	90	90	90
TYPICAL ROLL DIMENSIONS							
Roll Width ⁽¹⁾	---	m	5.4	5.4	5.4	5.4	5.4
Roll Length	---	m	100	100	100	75	50
Roll Area	---	m ²	540	540	540	405	270

NOTES:

- ⁽¹⁾ Typical tolerance ± 0.05 m.

[Product specifications continued on back]

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.



[DURABILITY RUNS DEEP] For more information on this product and other, please visit us at GSEworld.com, call 49.40.767420 or contact your local sales office.

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Property ⁽¹⁾	Test Method	Unit	Average Values			
			NW-P 600	NW-P 800	NW-P 1000	NW-P 1200
Tensile Strength (MD/CMD)	EN ISO 10319	kN/m	35 / 52	47 / 75	60 / 95	65 / 105
Tensile Elongation (MD/CMD)	EN ISO 10319	%	75 / 75	75 / 75	75 / 75	75 / 75
Static Puncture Strength	EN ISO 12236	N	7,400	10,000	11,500	14,000
Dynamic Perforation Resistance	EN ISO 13433	mm	6	2	1	1
Opening Size, (O ₉₀)	EN ISO 12956	µm	50	50	50	50
Water Permeability V _{I_{H50}}	EN ISO 11058	m/sec x 10 ⁻³	30	25	20	20
Water Flow Rate	EN ISO 11058	l/m ² /sec	30	25	20	20
Thickness (2 kPa)	EN 9863-1	mm	4.7	5.5	6.1	6.4
Mass per Unit Area	EN 9864	g/m ²	600	800	1,000	1,200
ENDURANCE						
Weathering Resistance	EN 12224	% retained strength	90	90	90	90
Oxidation Resistance	EN ISO 13438	% retained strength	90	90	90	90
TYPICAL ROLL DIMENSIONS						
Roll Width ⁽¹⁾	---	m	5.4	5.4	5.4	5.4
Roll Length	---	m	50	40	40	30
Roll Area	---	m ²	270	216	216	162

NOTES:

- ⁽¹⁾ Typical tolerance ± 0.05 m.

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