

## Needle Punched Nonwoven Geotextiles S NW series - Technical Table (Metric Values)

PROPERTY	STANDARD	UNIT	VALUE	S6NW	S8NW	S10NW	S12NW	S14NW	S16NW	S18NW	S20NW	S22NW	S25NW	S30NW	
<b>MECHANICAL</b>															
Tensile Strength (MD/CD)	EN 10319	kN/m	Average	6/6	8/8	10/10	12/12	14/14	16/16	18/18	20/20	22/22	25/25	30/30	
Tensile Elongation (MD/CD)	EN 10319	%	Average	36/42	45/45	45/45	45/45	50/50	50/50	50/50	55/55	55/55	65/65	65/65	
Resistance to static puncture	EN ISO 12236	N	Average	1050	1500	1700	2000	2300	2600	2900	3500	3700	4300	4800	
Dynamic Perforation resistance	EN ISO 13433	mm	Average	48	36	28	26	23	22	18	17	15	13	10	
<b>HYDRAULIC</b>															
Characteristic Opening Size (O <sub>90</sub> )	EN ISO 12956	µm	Average	128	100	90	90	80	80	70	70	70	70	60	
Water permeability V <sub>150</sub>	EN ISO 11058	mm/sec	Average	144	130	110	110	90	90	80	70	70	65	45	
Water flow rate	EN ISO 11058	l/(m <sup>2</sup> ·sec)	Average	144	130	110	110	90	90	80	70	70	65	45	
Water flow capacity in the plane (MD/CD)	HG 1.0 at 20kPa	10 <sup>-4</sup> l/(m·sec)	Average	-	37/25	15/24	13/10	63/16	14/14	14/12	27/21	31/26	16/16	24/14	
	HG 1.0 at 100kPa			-	2.2/3.8	5.2/4.7	5.3/3.9	3.7/6.9	5.4/3.5	5.4/3.8	9/6.9	8.2/12	4.4/4.6	6.6/5.8	
	HG 1.0 at 200kPa			-	1.7/1.3	3/2.2	3.1/2.1	1.2/2.6	1.3/1.5	1.8/2.3	4.1/1	3.6/3.4	4/3.1	3.7/2.9	
<b>ENDURANCE</b>															
Weathering Resistance	EN 12224	%retain strength	Average	75	90	90	90	90	90	90	90	90	90	90	
Resistance to Liquids – Acid	EN 14030	%retain strength	Average	90	90	90	90	90	90	90	90	90	90	90	
Resistance to Liquids – Alkaline	EN 14030	%retain strength	Average	90	90	90	90	90	90	90	90	90	90	90	
Oxidation Resistance	EN ISO 13438	%retain strength	Average	85/90	90	90	90	90	90	90	90	90	90	90	
Resistance to Soil Burial	EN 12225	%retain strength	Average	90	90	90	90	90	90	90	90	90	90	90	
<b>PHYSICAL</b>															
Mass/Unit Area	EN 9864	gr/m <sup>2</sup>	Average	80	100	120	140	160	180	200	250	270	300	380	
Thickness (2kPa)	EN 9863-1	mm	Average	0.7	0.8	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	
<b>STANDARD PACKING</b>															
Roll Width	Measured	m	Typical	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	
Roll Length	Measured	m	Typical	100	100	100	100	100	100	100	100	100	100	75	
Applications and intended uses of the needle punched non-woven Geotextile															
				EN 13249	EN 13250	EN 13251	EN 13252	EN 13253	EN 13254	EN 13255	EN 13256	EN 13257	EN 13265		
				F, R	F, R	F, R	F, D	F, R	F, R	F, R	F, R		F, R	F, R	
				F+S	F+S	F+S	F+S	F+S	F+S	F+S	F+S		F+S		
				R+S	R+S	R+S	F+D	R+S	R+S	R+S	R+S		R+S		
				F+R	F+R	F+R		F+R	F+R	F+R	F+R		F+R	F+R	
F+R+S	F+R+S	F+R+S	F+S+D	F+R+S	F+R+S	F+R+S	F+R+S		F+R+S						



Notified Body

**NOTES:**

- THRACE NWs&GEOs S.A. Technical Fabrics reserve the right to alter product specifications at any time without prior notice. It is the responsibility of all users to satisfy themselves that the above data are current.
- The geotextiles listed are CE marked and they come along with a CE certificate after a customer request.
- Polypropylene is the constituent polymer used in the production of the S NW geotextiles series.
- Geotextile S6NW to be covered within one month after installation in non-reinforcing applications or within two weeks after installation in reinforcing applications. All other geotextiles to be covered within one month after installation. All geotextiles are predicted to be durable for up to 50 years in soil temperatures > 25°C and are resistant to highly acid and alkaline environments on the basis of a durability assessment.
- F = Filtration, R = Reinforcement, S = Separation, D = Drainage
- Roll size may vary according to type and customer request.

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