
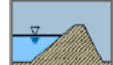





Needle Punched Non Woven Geotextiles

PNW series Technical Table (Average Values)

PROPERTY	STANDARD	UNIT	P100NW	P150NW	P200NW	P250NW	P300NW	P350NW	P400NW	P450NW	P500NW	P600NW	P700NW	P800NW	P900NW	P1000NW	P1100NW	P1200NW
MECHANICAL																		
Tensile Strength (MD/CD)	EN 10319	kN/m	5/5	8/8	14/15	16/17	18/22	20/28	25/33	30/36	30/44	35/52	40/70	47/75	52/90	60/95	63/100	65/105
Tensile Elongation (MD/CD)	EN 10319	%	40/40	45/45	50/50	55/55	65/65	65/65	75/75	75/75	75/75	75/75	75/75	75/75	75/75	75/75	75/75	75/75
Resistance to static puncture	EN ISO 12236	N	1500	2000	2900	3350	4000	4500	5000	5500	6000	7400	8500	10000	10500	11500	12000	14000
Dynamic Perforation resistance	EN ISO 13433	mm	38	28	21	16	12	10	10	9	8	6	4	2	2	1	1	1
HYDRAULIC																		
Opening Size (O ₉₀)	EN ISO 12956	µm	130	90	70	70	70	60	60	60	60	50	50	50	50	50	50	50
Water permeability V _{I150}	EN ISO 11058	m/sec*10 ⁻³	180	110	80	70	65	45	40	40	35	30	30	25	25	20	20	20
Water flow rate	EN ISO 11058	l/m ² /sec	180	110	80	70	65	45	40	40	35	30	30	25	25	20	20	20
ENDURANCE																		
Weathering Resistance	EN 12224	%retain	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Resistance to Liquids – Acid	EN 14030	%retain	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Resistance to Liquids – Alkaline	EN 14030	%retain	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Oxidation Resistance	EN ISO 13438	%retain	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Resistance to Soil Burial	EN 12225	%retain	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
PHYSICAL																		
Mass/Unit Area	EN 9864	gr/m ²	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
Thickness (2kPa)	EN 9863-1	mm	1.0	1.5	2.0	2.5	2.9	3.2	3.9	4.1	4.3	4.7	5.0	5.5	6.0	6.1	6.2	6.4
STANDARD PACKING																		
Roll Width / Length	Measured	m	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Roll Width / Length	Measured	m	100	100	100	100	100	100	75	75	50	50	40	40	40	40	30	30

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	P	F, R	F, R
	F+S	F+S	F+S	F+S	F+S	F+S	F+S	P	F+S	P
	R+S	R+S	R+S	F+D	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+S	F+R+S	F+R+S	F+S+D	F+R+S	F+R+S	F+R+S		F+R+S	R+P

NOTES:

1. 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.
2. The geotextiles listed are CE marked and they come along with a CE certificate after a customer request.
3. Polypropylene is the constituent polymer used in the production of the P NW geotextiles series.
4. To be covered within one month after installation. The above geotextile is predicted to be durable for more than 25 years in soil temperatures >25°C and are resistant to highly acid and alkaline environments on the basis of a durability assessment.
5. F = Filtration, R = Reinforcement, S = Separation, D = Drainage, P = Protection

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