

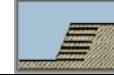
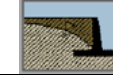

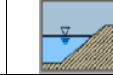
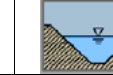
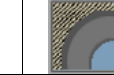

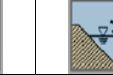


PROPERTY	STANDARD	UNIT	P100NW	P150NW	P200NW	P250NW	P300NW	P350NW	P400NW	P450NW	P500NW	P600NW	P700NW	P800NW	P900NW	P1000NW	P1100NW	P1200NW	P2000NW											
MECHANICAL																														
Tensile Strength (MD/CD)	EN 10319	kN/m	5/5	8/8	14/15	16/17	18/22	20/28	25/33	30/36	30/44	35/52	40/70	47/75	52/90	60/95	63/100	65/105	100/150											
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	75/75											
Resistance to static puncture	EN ISO 12236	N	1500	2000	2900	3350	4000	4500	5000	5500	6200	7400	8500	10000	10500	11500	12000	14000	25000											
Dynamic Perforation resistance	EN ISO 13433	mm	38	28	21	16	12	10	10	9	8	6	4	2	2	1	1	1	0											
Pyramid puncture resistance	EN 14574	N	-	-	-	-	-	-	380	-	-	-	-	-	-	-	-	-	-											
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	50											
Water permeability V ₁₅₀	EN ISO 11058	mm/sec	180	110	80	70	65	45	40	40	35	30	30	25	25	20	20	20	7											
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	7											
Water flow capacity in the plane (MD/CD)	HG 1.0 at 20kPa	EN ISO 12958	10 ⁻⁴ l/(m·sec)	33/36	31/29	39/41	24/19	47/26	29/54	31/160	80/180	86/150	81/89	58/99	60/93	72/86	170/310	-	110/250	-										
	HG 1.0 at 100kPa			8.2/7.9	12/11	18/17	13/10	20/17	16/28	13/61	47/110	47/77	46/54	36/61	28/41	48/52	84/140	-	49/120	-										
	HG 1.0 at 200kPa			4.4/3.5	4.7/6.1	7.0/5.1	6.0/5.4	7.6/7.1	5.8/15	10/27	25/75	18/53	12/38	20/25	24/28	29/35	33/52	-	25/61	-										
ENDURANCE																														
Weathering Resistance	EN 12224	%retain	90	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	90											
Resistance to Liquids - Alkaline	EN 14030	%retain	90	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	90											
Resistance to Soil Burial	EN 12225	%retain	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90											
Long Term Protection Efficiency 300/600/1200kPa	EN 13719	-	-	-	-	-	-	-	0.017/0.03/0.06	-	-	-	-	-	-	-	-	-	-											
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	2000											
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	12											
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	5.4											
Roll Width / Length	Measured	m	100	100	100	100	100	100	75	75	50	50	40	40	40	40	30	30	20											
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			R+S			R+S		
	F+R			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			F+R+S			



Certificate No: 0338-CPD-0691



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 P NW geotextiles series.
- To be covered within one month after installation. The above geotextile is 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, P = Protection

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