Thrace
Nonwovens & Geosynthetics

Technical Data Sheet

CE

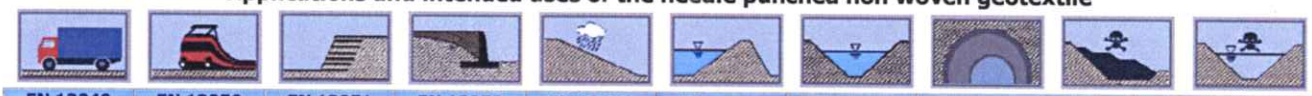
500NW

BTTG CERTIFICATION SERVICES
Notified Body

Certificate No: 0338-CPD-392

500NW is a UV stabilized polypropylene needle punched non woven geotextile. It is manufactured at one of THRACE NWs&GEOs facilities that have achieved **ISO 9001:2008** certification for its systematic approach to quality. The construction of the geotextile makes **500NW** ideal for the following applications.

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

It is resistant to commonly encountered soil chemicals, mildew and insects and is non biodegradable. **500NW** conforms to the property values listed below. Technical data are based on statistical analysis on 95% confidence limit.

PROPERTY		TEST METHOD	VALUE	METRIC UNITS		TOLERANCE
MECHANICAL						
Tensile Strength (MD/CD)		EN 10319 / ASTM D4595	Average	kN/m	36.0/40.0	-3.6/-4.0
Tensile Elongation (MD/CD)		EN 10319 / ASTM D4595	Average	%	75/75	±15/±15
Grab Tensile Strength		ASTM D4632	Average	N	2100	-210
Trapezoidal Tear Strength		ASTM D4533	Average	N	780	-78
Puncture Strength		ASTM D4833	Average	N	1150	-115
Mullen Burst		ASTM D3786	Average	kPa	4800	-480
Resistance to Static Puncture (CBR)		EN ISO 12236 / ASTM D6241	Average	N	6500	-650
Dynamic Perforation resistance		EN ISO 13433	Average	mm	4	+1
Pyramid Puncture resistance		EN 14574	Average	N	480	-48
HYDRAULIC						
Apparent Opening Size (AOS)		ASTM D4751	Average	µm	80	-24
Characteristic Opening Size (O_{90})		EN ISO 12956	Average	µm	70	-21
Water permittivity		EN11058 / ASTM D4491	Average	s^{-1}	0.8	-0.2
Water permeability VI_{H50}		EN11058 / ASTM D4491	Average	$m/sec*10^{-3}$	40	-12
Water flow rate		EN11058 / ASTM D4491	Average	$l/m^2/sec$	40	-12
Water Flow Capacity in the plane (MD/CD)	HG 1.0 at 20kPa	EN ISO 12958	Average	$l/m/s*10^{-2}$	2.63/5.29	-
	HG 1.0 at 100kPa				1.38/2.95	-
	HG 1.0 at 200kPa				0.86/1.85	-
ENDURANCE						
Weathering Resistance		EN12224 / ASTM D4355	Average	%retain strength	90	±10
Resistance to Liquids – Acid & Alkaline		EN 14030	Average	%retain strength	90	±10
Oxidation & Soil Burial Resistance		EN13438 & EN12225	Average	%retain strength	90	±10
PHYSICAL						
Mass/Unit Area		EN 9864 / ASTM D5261	Average	gr/m^2	500	±50
Thickness (2kPa)		EN 9863-1 / ASTM D5199	Average	mm	3.6	±0.36
STANDARD PACKAGING						
Roll Width / Length		Typical	Typical	m	5.4/50	±0.05/±1

NOTES:

1. THRACE NWs&GEOs 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 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

TÜV AUSTRIA HELLAS
ISO 9001:2008
Reg.No: 01010018