

provisional

Technical Data Sheet

TGC-30S-200

TGC-30S-200 is a geocomposite consisting of a polypropylene extruded biaxial geogrid thermally bonded to a UV stabilized polypropylene needle punched nonwoven geotextile. It is manufactured at one of Thrace Nonwovens & Geosynthetics S.A. facilities that have achieved **ISO 9001** certification for its systematic approach to quality, as well as **ISO 14001** for its safe environmental practices. The construction of the geocomposite makes it ideal for stabilization, separation and filtration in road construction, landfill applications and in many uses in the field of civil engineering.

PROPERTY	TEST METHOD	VALUE	METRIC UNITS	TOLERANCE	
TG3030S					
Tensile Strength (MD/CD)	EN ISO 10319	Average	kN/m	30/30	-3.0 /-3.0
Elongation at Maximum Load (MD/CD)	EN ISO 10319	Average	%	12/9	±3.6/±2.7
Weathering Resistance (MD/CD)	EN 12224	Average	%retained strength	100/100	±10/±10
Resistance to Liquids – Acid (MD/CD)	EN 14030	Average	%retained strength	100/100	±10/±10
Resistance to Liquids – Alkaline (MD/CD)	EN 14030	Average	%retained strength	100/100	±10/±10
Resistance to oxidation (MD/CD)	EN ISO 13438	Average	%retained strength	100/100	±10/±10
Microbiological Resistance (MD/CD)	EN 12225	Average	%retained strength	100/100	±10/±10
Aperture Size (MD/CD)	Measured	Average	mm	40/40	±4/±4
Carbon Black	ASTM D1603	Average	%	2	+0.2
200NW					
Tensile Strength (MD/CD)	EN ISO 10319	Average	kN/m	16.7/16.7	-1.7/-1.7
Elongation (MD/CD)	EN ISO 10319	Average	%	45/45	-9/-9
Resistance to static puncture	EN ISO 12236	Average	N	2350	-235
Dynamic Perforation resistance	EN ISO 13433	Average	mm	23	+4
Characteristic Opening Size (O ₉₀)	EN ISO 12956	Average	µm	90	±27
Water permeability V _{H50}	EN ISO 11058	Average	mm/sec	60	-18
Nominal Mass/Unit Area	EN ISO 9864	Average	gr/m ²	190	±19
Thickness (2kPa)	EN ISO 9863-1	Average	mm	1.1	±0.22
STANDARD PACKAGING					
Roll Width/ Length	Measured	Typical	m	3.95/30	±0.02/±1

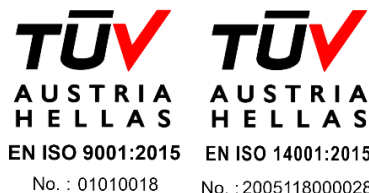
NOTES:

Thrace Nonwovens & Geosynthetics S.A. Technical Fabrics reserves 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.

Polypropylene is the constituent polymer used in the production of the geocomposite series.

To be covered within two weeks after installation. The above geocomposite is predicted to be durable for up to 100 years in soil temperatures ≤25°C and are resistant to highly acid and alkaline environments on the basis of a durability assessment.

The information contained herein is furnished without charge or obligation and the recipient assumes all the responsibility for its use. Because conditions for use and handling may vary and are beyond our control, Thrace Nonwovens & Geosynthetics S.A. makes no representation about, and is not responsible or liable for, the accuracy or reliability of said information or performance of any product. Any specification, properties or applications listed herein are provided as information only in no way modify, amend, enlarge or create any warranty. Nothing contained herein is to be construed as permission or as any recommendation to infringe on any patent.



THRACE NONWOVENS & GEOSYNTHETICS S.A.

Head Office: 20, Marinou Antypa str., 17455, Alimos (Athens), Greece, **T** +30 210 9875044-9 | **F** +30 210 9875040
 Production Facilities: Magiko Xanthi, 67100, Xanthi, Greece, **T** +30 25410 45675-6 | **F** +30 25410 45658
www.thracegroup.com