Thrace Nonwovens & Geosynthetics

PP Extruded Biaxial Geogrids
TG Series - Technical Table (Average Values)

TG Series are polypropylene extruded biaxial geogrids manufactured at one of THRACE NWs & GEOs S.A. facilities that have achieved **ISO 9001:2008** certification for its systematic approach to quality. The construction of the biaxial geogrid makes it ideal for the following applications with its main function being "Reinforcement".

Applications and intended uses of the extruded Biaxial Geogrid

N 13249	EN 13250	EN 13251	EN 13252	EN 13253	EN 13254	EN 13255	EN 13256	EN 13257	EN 13265
R	R	R	-	R	R	R	-	R	R

Thrace's geogrids conform to the property values listed below. Technical data are based on statistical analysis on 95% confidence limit.

PROPERTY	TEST METHOD	VALUE	METRIC UNITS	TG1	TG2	TG1515	TG2020S	TG2020L	TG2525	TG3030S	TG3030L	TG4040S	TG4040L
MECHANICAL (MD/CD)													
Tensile Strength (MD/CD)	EN ISO 10319	Average	kN/m	13/20	20/30	15/15	20/20	20/20	25/25	30/30	30/30	40/40	40/40
Elongation at Maximum Load	EN ISO 10319	Average	%	10/15	15/12	12/9	15/10	14/8	16/10	10/10	11/11	12/12	13/13
Tensile Strength at 2% Strain	EN ISO 10319	Average	kN/m	5/7	12/20	4/6	10/10	11/11	14/14	17/12	15/9	14/15	14/14
Tensile Strength at 5% Strain	EN ISO 10319	Average	kN/m	9/14	20/29	11/12	18/18	18/18	22/22	27/23	29/20	29/30	29/29
Rib Strength	GRI GG1	Average	kN/m	12/18	19/28	14/14	20/20	20/20	25/25	29/29	30/28	42/42	41/41
Junction Strength	GRI GG2	Average	kN/m	11/17	18/26	13/13	18/18	18/18	23/23	27/27	28/25	39/39	38/38
ENDURANCE (MD/CD)													
Weathering Resistance	EN 12224	Average	% Ret. Str	100	100	100	100	100	100	100	100	100	100
Resistance to Acid/Alkaline	EN 14030	Average	% Ret. Str	100	100	100	100	100	100	100	100	100	100
Oxidation Resistance (56days@110 °C)	EN ISO 13438	Average	% Ret. Str	100	100	100	100	100	100	100	100	100	100
Resistance to Soil Burial	EN 12225	Average	% Ret. Str	100	100	100	100	100	100	100	100	100	100
PHYSICAL													
Grid Opening Size (MD/CD)	Measured	Average	mm	25/33	25/33	40/40	40/40	66/66	40/40	40/40	66/66	33/33	54/54
Carbon Black	ASTM D1603	Average	%	2	2	2	2	2	2	2	2	2	2
STANDARD PACKAGING													
Roll Width	Measured	Typical	m	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95
Roll Length	Measured	Typical	m	50/75/100	50/75/100	50/75/100	50/75/100	50/75	50/75	50	50	30/50	30/50

CE

Certificate No: 0338-CPD-0643

BTTG CERTIFICATION SERVICES

Notified Body

NOTES:

THRACE NWs&GEOs S.A. 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.

1. The geogrids listed are CE marked and they come along with a CE certificate after a customer request.
2. Polypropylene is the constituent polymer used in the production of the TG geogrid series.
3. To be covered within one month after installation. Predicted to be durable for more than 50 years in soil temperatures > 25°C and is resistant to highly acid and alkaline environments on the basis of a durability assessment.
4. R = Reinforcement

TÜV AUSTRIA HELLAS
ISO 9001:2008
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