

G-Net® Tri-planar series are Tri-planar drainage geonets made with two sets of diagonally crossed parallel HDPE ribs intersecting at different angles and spacing, are an extruded bi-planar core made from virgin HDPE, Virgin polymer HDPE core allows reduced creep and higher compressive strengths (up to 2800 kPa) This unique strand structure provides superior compressive creep resistance and ensures continuous drainage performance over a wide range of conditions and long durations.

Features: Excellent drainage performance, resistant to chemical and biological agents.

Applications: Landfill leachate collection, foundation wall drainage, methane gas collection, pavement and roadway drainage.

Typical Properties	Value Type	Unit	G-NT160	G-NT220	G-NT250	G-NT300	G-NT330	G-NT350	G-NT500
Polymer	high-density polyethylene (HDPE), black/other								
Thickness (20KP) [ASTM D 5199]	Marv	mm	4.0	5.0	6.0	7.0	8.0	10.0	12.0
Density [ASTM D 1505/ D 792]	Marv	g/m ³	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Carbon black [ASTM D 4218/ D 1603]	Marv	%	≥2.0	≥2.0	≥2.0	≥2.0	≥2.0	≥2.0	≥2.0
Melt Flow Index [ASTM D 1238, 190°C/2.16kg]	MaxARV	g/10min	≤1	≤1	≤1	≤1	≤1	≤1	≤1
Mechanical Properties									
Tensile strength, MD [ASTM D7191]	Marv	kN/m	5.4	8.0	9.2	11.6	13.7	18.4	22.2
Tensile Elongation, MD [ASTM D5035 and D7191]	Typical	%	≤15	≤15	≤15	≤15	≤15	≤15	≤15
Compressive Strength [ASTM D 6364]	Marv	kPa	450	650	1120	1530	2020	2350	2600
Hydraulic Properties									
Transmissivity@480kPa/1.0Gradient/15min [ASTM D 4716]	Marv	m ² /sec	1×10 ⁻³	2×10 ⁻³	2.5×10 ⁻³	6×10 ⁻³	8×10 ⁻³	9×10 ⁻³	1.5×10 ⁻⁴
Physical Identification Properties									
Grade	-	-	G-NT160	G-NT220	G-NT250	G-NT300	G-NT330	G-NT350	G-NT500
Roll Width	Typical	m(≤)	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Roll Length	Typical	m	83	76	64	57	55	48	36
Approx Load Q'ty / 40' HQ	-	Rolls(≥)	27	27	27	27	27	27	27
	-	Sq. m	8,516	7,798	6,566	5,848	5,643	4,925	3,694

MARV is statistically defined as the mean minus two standard deviations and is the value which is exceeded by 97.5% of test data. The data was obtained from in-house test laboratory, National test institutes and international test institutes. GeoTrans keeps the right of data changes and the final explanation right. Liability Exclusion: This publication should not be construed as engineering advice. While information contained here is accurate to the best of our knowledge, GeoTrans does not warrant its accuracy or completeness. The only warranty made by GeoTrans for its products is set forth in our Product Test Report accompanies our shipment of the products, or such other written warranty as may be agreed by GeoTrans and customer. GeoTrans specifically disclaims all other warranties express or implied, including without agreed by GeoTrans and customer. GeoTrans specifically disclaims all other warranties, express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, or arising from provision of samples, a course of dealing or usage of trade.



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