

G-Grid® PP series are an integrally formed uniaxial geogrids made of polypropylene through extrusion, punching and drawing. This material has considerable tensile strength in longitudinal (MD) directions. This chain structure can effectively bear and diffuse forces on soft soil and is applicable to large area permanent load bearing foundation as reinforce. So that it can effectively avoid crack, collapse on the surface.

Features: High tensile strength in MD directions, high chemical and biological resistance. It makes soil reinforced with its excellent structure stability and strong mechanical interlock performance.

Applications: Pave or unpaved road construction, garbage disposal engineering, mining applications, basal reinforcement.

Typical Properties	Value Type	Unit	PPU80/30	PPU120/50	PPU160/50	PPU200/50	PPU260/50
Polymer	Polypropylene (PP), white/black						
Mechanical Properties							
Mass per Unit [ASTM D5261]	Typical	g/m ²	≥250	≥350	≥450	≥550	≥700
Tensile strength,MD [ASTM D4595 or EN ISO 10319 / ASTM D6637]	Typical	kN/m	≥80	≥120	≥160	≥200	≥260
Elongation, MD [ASTM D4595 or EN ISO 10319 / ASTM D6637]	Typical	%	≤10	≤10	≤10	≤10	≤10
Tensile strength at 2% elongation, MD [ASTM D4595 or EN ISO 10319 / ASTM D6637]	Typical	kN/m	≥32	≥48	≥64	≥80	≥104
Tensile strength at 5% elongation, MD [ASTM D4595 or EN ISO 10319 / ASTM D6637]	Typical	kN/m	≥64	≥96	≥128	≥160	≥208
LTDS Tensile strength @ 120 years design life [ASTM D 4595]	Typical	kN/m	≥52	≥78	≥104	≥130	≥169
Reduction factor - creep 120 years [ASTM D 4595]	Typical	-	≤1.43	≤1.43	≤1.43	≤1.43	≤1.43
Carbon black [ASTM D4218]	Typical	%	≥2	≥2	≥2	≥2	≥2
Installation damage resistance [ASTM D5818 or ISO 10722]	Typical	%	≥ 98	≥ 98	≥ 98	≥ 98	≥ 98
Width Deviation	Typical	%	+1.0	+1.0	+1.0	+1.0	+1.0
Aperture Dimensions. MD x CD	Typical	mm	MD ≤ 450 , CD ≤ 30				
UV-resistance [ASTM D 4355(500 hrs)]	Typical	%	>95	>95	>95	>95	>95
Physical Identification Properties							
Grade	Typical	g/m ²	PPU80/30	PPU120/50	PPU160/50	PPU200/50	PPU260/50
Roll Width	Typical	m(<=)	5.9	5.9	5.9	5.9	5.9
Roll Length	Typical	m	100	100	100	100	100
Approx Load Q'ty / 40' HQ		Rolls(>=)	102	73	58	47	36
		Sq. m	60,180	43,070	34,220	27,730	21,240

Above the values listed are the average values, 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 rising from provision of samples, a course of dealing or usage of trade.



Dalian GeoTrans Technology Co., Ltd.

Add: No.8888-1 Southeast Industrial Zone, Youjia, Ganjingzi District, Dalian, China P.C.: 116039

Tel: +86-(0)411 86692019

Fax: +86-(0)411 86692019

Website: www.geotranstechnology.com

E-Mail: enquiry@geo-textile.com

