

G-Grid® PP series are an integrally formed biaxial geogrids made of polypropylene through extrusion, punching and drawing. This material has considerable tensile strength in both longitudinal (MD) and transverse (CD) 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 and CD 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	PPB20/20	PPB30/30	PPB40/40	PPB50/50
Polymer			Polypropylene (PP), white/black			
Mechanical Properties						
Mass per Unit [ASTM D5261]	Typical	g/m ²	≥160	≥250	≥370	≥480
Tensile strength,MD / CD [ASTM D4595 or EN ISO 10319 / ASTM D6637]	Typical	kN/m	≥20 / ≥20	≥30 / ≥30	≥40 / ≥40	≥50 / ≥50
Elongation, MD / CD [ASTM D4595 or EN ISO 10319 / ASTM D6637]	Typical	%	≤15.0 / ≤13.0	≤15.0 / ≤13.0	≤15.0 / ≤13.0	≤15.0 / ≤13.0
Tensile strength at 2% elongation, MD/CD [ASTM D4595 or EN ISO 10319 / ASTM D6637]	Typical	kN/m	≥8 / ≥8	≥12 / ≥12	≥16 / ≥16	≥20 / ≥20
Tensile strength at 5% elongation, MD/CD [ASTM D4595 or EN ISO 10319 / ASTM D6637]	Typical	kN/m	≥16 / ≥16	≥24 / ≥24	≥32 / ≥32	≥40 / ≥40
LTDS Tensile strength @ 120 years design life [ASTM D 4595]	Typical	kN/m	≥13 / ≥13	≥18 / ≥18	≥26 / ≥26	≥32 / ≥32
Reduction factor - creep 120 years [ASTM D 4595]	Typical	-	≤1.43	≤1.43	≤1.43	≤1.43
Carbon black [ASTM D4218]	Typical	%	≥2	≥2	≥2	≥2
Installation damage resistance [ASTM D5818 or ISO 10722]	Typical	%	≥ 98	≥ 98	≥ 98	≥ 98
Width Deviation	Typical	%	+1.0	+1.0	+1.0	+1.0
Aperture Dimensions. MD x CD	Typical	mm	20 ≤ MD ≤ 50 , 20 ≤ CD ≤ 50			
UV-resistance [ASTM D 4355(500 hrs)]	Typical	%	>95	>95	>95	>95
Physical Identification Properties						
Grade	Typical	g/m ²	PPB20/20	PPB30/30	PPB40/40	PPB50/50
Roll Width	Typical	m(<=)	5.9	5.9	5.9	5.9
Roll Length	Typical	m	100	100	100	100
Approx Load Q'ty / 40' HQ		Rolls(>=)	160	102	70	54
		Sq. m	94,400	60,180	41,300	31,860

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.



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