TECHNICAL DATA SHEET (TDS)

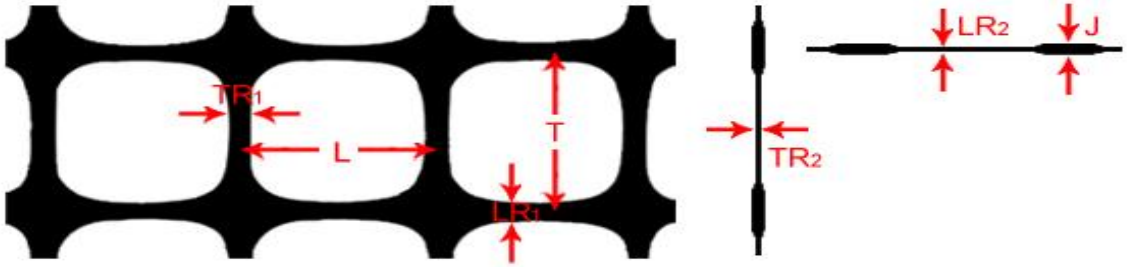
Product Series: PP Biaxial Geogrid 3030 4040

Brand:	Geoleed
Material:	High-Grade Polypropylene (PP)
Application:	Base Reinforcement / Soil Stabilization

1. PRODUCT OVERVIEW

PP Biaxial Geogrid is an integrally formed biaxial geogrid manufactured from a punched and drawn polypropylene sheet. It features a high degree of rib-node integrity and provides excellent lateral restraint for aggregate base layers.

2. PHYSICAL PROPERTIES



Product	L	T	LR_1	TR_1	LR_2	TR_2	J
GG1515	36	34	3.0	2.6	0.9	0.7	3.1
GG2020	36	36	2.6	2.6	1.3	1.0	3.5
GG2525	34	34	2.6	2.7	1.6	1.3	4.2
GG3030	34	35	2.8	2.8	2.3	1.7	4.9
GG4040	32	31	3.1	3.1	3.0	2.1	5.5
GG4545	30	30	3.1	3.4	3.3	2.2	5.6
GG5050	29	29	3.1	3.4	4.1	2.5	5.8

* unit = mm

Property	Test Method	Unit (Metric)	Value (MD/TD)
Aperture Size	-	-	High-Grade Polypropylene (PP)
Rib Thickness	-	-	Biaxial (Monolithic)
Carbon Black Content	ASTM D4218	%	≥ 2.0

*3. MECHANICAL PROPERTIES (MARV)**

Property	Test Method	Unit	MD Value	TD Value	MD Value	TD Value
Ultimate Tensile Strength	ASTM D6637	kN/m	30	30	40	40
Tensile Strength @ 2% Strain	ASTM D6637	kN/m	10.5	10.5	14	14
Tensile Strength @ 5% Strain	ASTM D6637	kN/m	21	21	28	28
Peak Elongation	ASTM D6637	%	≤ 13	≤ 13	≤ 13	≤ 13
Junction Efficiency	GRI-GG2	%	93	-	93	-
Radial Stiffness @ 0.5% Strain	ASTM D6637	kN/m	360	-	360	-
Flexural Rigidity	ASTM D 7748	mg-cm	2,000,000	-	4,800,000	-
Aperture Stability	ASTM D 7864	m-N/deg	0.75	-	0.98	-
Roll Width	-	m	3.95 or 5.95	-	3.95 or 5.95	-
Roll Length	-	m	50		50	
Mass per Unit Area	ASTM D5261	g/m²	340 (± 5%)		480 (± 5%)	

Note: MD = Machine Direction; TD = Transverse Direction.

Note：
Product colors and mesh sizes can be provided upon request by GeoLeed@.

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