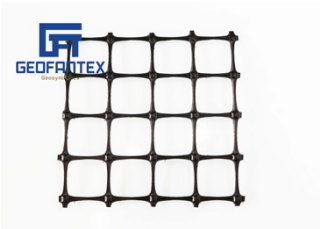
GeoFanGrid PPD Geogrid

Technical Data Sheet

GeofanGrid PPD in June 2019



GeofanGrid PPD is a robust, biaxial geogrid manufactured from PP with the most proven “punch-and-drawing” techniques by using the most sophisticated manufacturing technology. Solid sheets of polymer have apertures removed by punching, and then the sheet is carefully stretched to achieve optimum molecular orientation to ensure the maximum design life of the material as a high modulus reinforcing layer within pavements.

Typically used in basal reinforcement applications, the geogrid is used to absorb lateral forces that would be exerted upon the sub grade from traffic loading.

This traffic loading is transferred to the geogrid by the interlocking action of the granular aggregate within the apertures of the biaxial geogrid and the frictional resistance generated between the geogrid and sub base. GeofanGrid PPD offers very low elongation of 13-15% at ultimate load capacity, but more importantly the high modulus of the material means low elongation when initially loaded, thus reducing rutting, road wear and ultimately increases the design life of the road structure.

Applications - **sub-base reinforcement in pavements**

- **basal reinforcement in unpaved & temporary roads**
- **sub-grade stabilization**

GeofanGrid PPD also has 100% junction efficiency and a high flexural stiffness.

Physical Properties

Properties [ASTM D 6637]	Unit	Specification				
		PPD1616	PPD2020	PPD3030	PPD4040	PPD4545
Longitudinal Tensile Strength	kN/m	16	20	30	40	45
Transverse Tensile Strength	kN/m	16	20	30	40	45
Longitudinal Yield Elongation				15%		
Transverse Yield Elongation				13%		
Longitudinal Strength at 2% Strain	kN/m	5.4	7	10.5	14	16
Transverse Strength at 2% Strain	kN/m	5.4	7	10.5	14	16
Longitudinal Strength at 5% Strain	kN/m	7.6	14	21	28	32
Transverse Strength at 5% Strain	kN/m	7.6	14	21	28	32
Structural Integrity						
Junction Efficiency (GRI GG2)	%	93	93	93	93	93
Flexural Rigidity (ASTM D 7748)	mg-cm	250000	750000	2000000	4800000	6000000
Aperture Stability (CEO Method)	m-n/deg	0.32	0.50	0.75	0.98	1.05
Roll Length (m)		50/100				
Roll Width (m)				2/3.9/3.95/4		

Above values are on an average basis, the data was obtained from in-house test laboratory, National test institutes and international test institutes. Geofantex Geosynthetics 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, Geofantex Geosynthetics does not warrant its accuracy or completeness. The only warranty made by Geofantex Geosynthetics 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 Geofantex Geosynthetics and customer. Geofantex Geosynthetics specifically disclaims all other warranties, express or implied, including without agreed by Geofantex Geosynthetics and customer. Geofantex Geosynthetics 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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