

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	PPD5050
Longitudinal Tensile Strength	kN/m	16	20	30	40	45	50
Transverse Tensile Strength	kN/m	16	20	30	40	45	50
Longitudinal Yield Elongation		15%					
Transverse Yield Elongation		13%					
Longitudinal Strength at 2% Strain	kN/m	5.4	7	10.5	14	16	17.5
Transverse Strength at 2% Strain	kN/m	5.4	7	10.5	14	16	17.5
Longitudinal Strength at 5% Strain	kN/m	7.6	14	21	28	32	35
Transverse Strength at 5% Strain	kN/m	7.6	14	21	28	32	35
Structural Integrity							
Junction Efficiency (GRI GG2)	%	93	93	93	93	93	93
Flexural Rigidity (ASTM D 7748)	mg-cm	250000	750000	2000000	4800000	6000000	8000000
Aperture Stability (CEO Method)	m-n/de g	0.32	0.50	0.75	0.98	1.05	1.10
Roll Length (m)		50/100					
Roll Width (m)		2/3.9/3.95/4					

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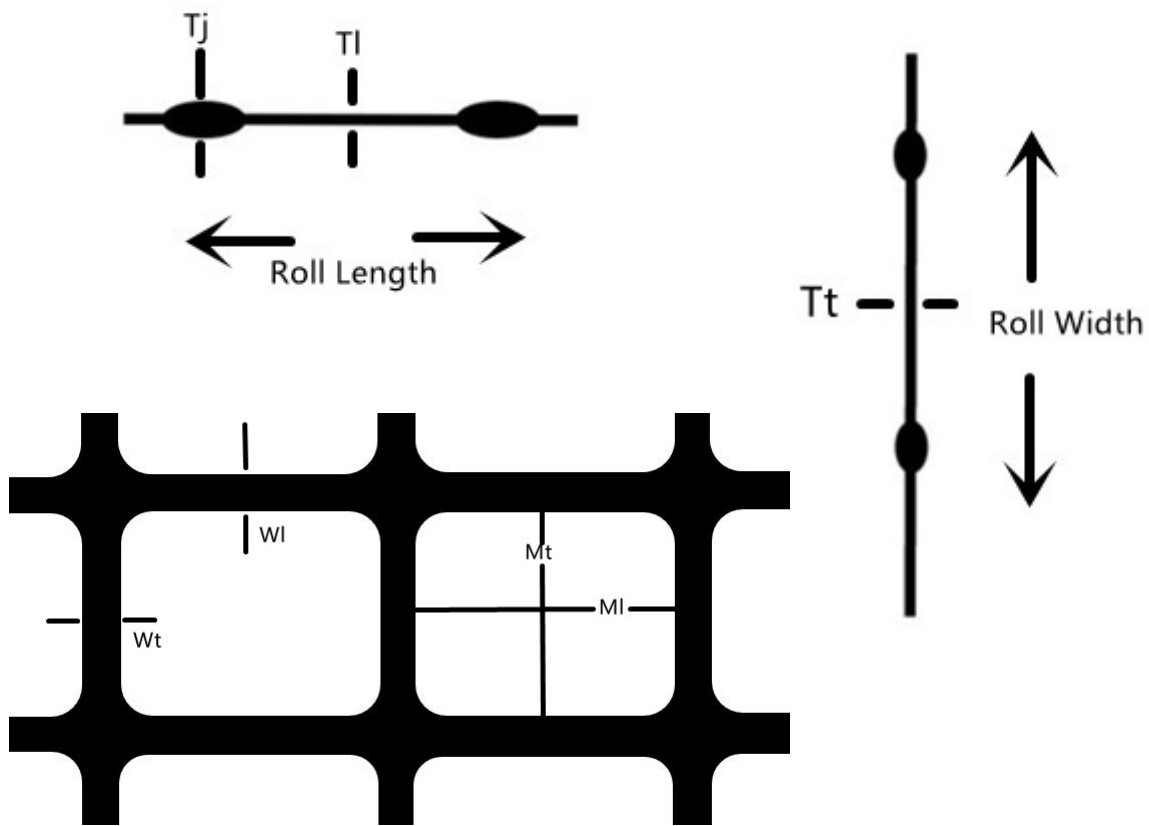
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MEASUREMENT

Properties	Unit	Specification					
		PPD1616	PPD2020	PPD3030	PPD4040	PPD4545	PPD5050
Ml	mm	36	35	34	33	32	30
Mt	mm	36	35	34	33	32	30
Wl	mm	2.6	2.6	3.0	3.0	3.1	3.1
Wt	mm	2.6	2.6	3.0	3.0	3.1	3.1
Tl	mm	1.0	1.5	2.5	3.4	4.1	4.3
Tt	mm	0.8	1.1	1.5	2.1	2.2	2.5
Tj	mm	3.1	3.5	4.9	5.5	5.6	5.8



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