

Technical Data Sheet

GFT GeofanGrid PPD Apr 2014

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	Specification PPD 2020
Longitudinal Tensile Strength (kN/m)	20
Transverse Tensile Strength kN/m	20
Longitudinal Yield Elongation	15%
Transverse Yield Elongation	13%
Longitudinal Strength at 2% Strain kN/m	7
Transverse Strength at 2% Strain (kN/m)	7
Longitudinal Strength at 5% Strain (kN/m)	14
Transverse Strength at 5% Strain (kN/m)	14
Roll Length (m)	50/100
Roll Width (m)	2/3.9/3.95/4

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