Permagrid Biaxial Geogrid 2020

Description:
Permagrid Biaxial Geogrid is manufactured from polypropylene and is produced by extrusion, punching and heating. It is then stretched both in the transverse and longitudinal directions.

Performance:
High tensile strength in both transverse and longitudinal directions.

Applications:
- Roads, railways, ports and other paved areas
- Airport runways
- Temporary roads and other unpaved areas
- Slope reinforcement
- Environmental protection of slopes
- Landfill Sites

Benefits::
- Helps prevent cracks and subsidence
- Improvement of the bearing capacity of foundations
- Easy to install, reduces construction costs

Index Properties	**Test Method**	**Units**	**MD Values**	**TD Values**
Polymer			Polypropylene	
Minimum Carbon Black	ASTM D 4218	%	2	
Tensile Strength @ 2% strain	ASTM D 6637	kN/m	7	7
Tensile Strength @ 5% strain	ASTM D 6637	kN/m	14	14
Ultimate Tensile Strength	ASTM D 6637	kN/m	20	20
Strain @ Ultimate Strength	ASTM D 6637	%	13	13
Structural Integrity				
Junction Efficiency	GRI GG2	%	90	90
Flexural Rigidity	ASTM D 1388	mg-cm	1,090,000	
Aperture Stability	COE Method	mm-N/deg	707	
Dimensions				
Aperture Dimensions		mm	38	36
Minimum Rib Thickness	ASTM D 1777	mm	1.3	1.0
Roll Width		m	3.95	
Roll Length		m	50	
Roll Weight		kg	50	

Permagrid Biaxial Geogrid 3030

Description:
Permagrid Biaxial Geogrid is manufactured from polypropylene and is produced by extrusion, punching and heating. It is then stretched both in the transverse and longitudinal directions.

Performance:
High tensile strength in both transverse and longitudinal directions.

Applications:
- Roads, railways, ports and other paved areas
- Airport runways
- Temporary roads and other unpaved areas
- Slope reinforcement
- Environmental protection of slopes
- Landfill Sites

Benefits::
- Helps prevent cracks and subsidence
- Improvement of the bearing capacity of foundations
- Easy to install, reduces construction costs

Index Properties	**Test Method**	**Units**	**MD Values**	**TD Values**
Polymer			Polypropylene	
Minimum Carbon Black	ASTM D 4218	%	2	
Tensile Strength @ 2% strain	ASTM D 6637	kN/m	10.5	10.5
Tensile Strength @ 5% strain	ASTM D 6637	kN/m	21	21
Ultimate Tensile Strength	ASTM D 6637	kN/m	30	30
Strain @ Ultimate Strength	ASTM D 6637	%	13	13
Structural Integrity				
Junction Efficiency	GRI GG2	%	90	90
Flexural Rigidity	ASTM D 1388	mg-cm	3,930,000	
Aperture Stability	COE Method	mm-N/deg	1432	
Dimensions				
Aperture Dimensions		mm	36	34
Minimum Rib Thickness	ASTM D 1777	mm	2.1	1.8
Roll Width		m	3.95	
Roll Length		m	50	
Roll Weight		kg	68	

Permagrid Biaxial Geogrid 4040

Description:
Permagrid Biaxial Geogrid is manufactured from polypropylene and is produced by extrusion, punching and heating. It is then stretched both in the transverse and longitudinal directions.

Performance:
High tensile strength in both transverse and longitudinal directions.

Applications:
- Roads, railways, ports and other paved areas
- Airport runways
- Temporary roads and other unpaved areas
- Slope reinforcement
- Environmental protection of slopes
- Landfill Sites

Benefits::
- Helps prevent cracks and subsidence
- Improvement of the bearing capacity of foundations
- Easy to install, reduces construction costs

Index Properties	**Test Method**	**Units**	**MD Values**	**TD Values**
Polymer			Polypropylene	
Minimum Carbon Black	ASTM D 4218	%	2	
Tensile Strength @ 2% strain	ASTM D 6637	kN/m	14	14
Tensile Strength @ 5% strain	ASTM D 6637	kN/m	28	28
Ultimate Tensile Strength	ASTM D 6637	kN/m	40	40
Strain @ Ultimate Strength	ASTM D 6637	%	13	13
Structural Integrity				
Junction Efficiency	GRI GG2	%	90	90
Flexural Rigidity	ASTM D 1388	mg-cm	11,480,000	
Aperture Stability	COE Method	mm-N/deg	2104	
Dimensions				
Aperture Dimensions		mm	34	34
Minimum Rib Thickness	ASTM D 1777	mm	2.1	1.6
Roll Width		m	3.95	
Roll Length		m	50	
Roll Weight		kg	96	