

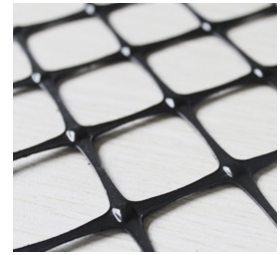
Biaxial Geogrid

KM1515 – KM3030



KEYMAY

KEYMAY's Biaxial Geogrids are used to improve the performance of aggregate base course materials supporting both paved and unpaved roads. The geogrid provide confinement (lateral stability) of unbounded base courses improving the vertical stress distribution characteristics. Confinement is achieved by the geogrids restraining the lateral and vertical deformation of the aggregate, which is locked into the aperture openings of the product during placement and compaction of the aggregate. The reinforcement (strength) is achieved by applying vertical stress causing the lateral and vertical deformation of both the aggregate and the geogrid.



PP BIAxIAL GEOGRID										
INDEX PROPERTIES	TEST METHOD	UNIT	KM1515		KM2020		KM2525		KM3030	
			MD	TD	MDW	TD	MD	TD	MD	TD
Polymer	-	-	PP		PP		PP		PP	
Minimum Carbon Black	ASTM D-4218	%	2		2		2		2	
Tensile Strength @ 2% strain	ASTM D-6637	kN/m	5		7		9		10.5	
Tensile Strength @ 5% strain	ASTM D-6637	kN/m	10.5		14		17		21	
Ultimate Tensile Strength	ASTM D-6637	kN/m	15		20		25		30	
STRUCTURAL INTEGRITY										
Junction Efficiency	GRI GG2	%	93		93		93		93	
Flexural Rigidity	ASTM D-7748	mg-cm	250,000		750,000		1,000,000		2,000,000	
Aperture Stability	ASTM D-7864	m-N/deg	0.32		0.50		0.65		0.75	
DIMENSIONS										
Roll Width	-	m	3.95		3.95		3.95		3.95	
Roll Length	-	m	75		50		50		50	

1515 BIAXIAL GEOGRID			
MINIMUM AVERAGE ROLL VALUES (MARV)			
PROPERTIES	STANDARD	UNIT	KM1515
MECHANICAL			
MD Tensile Strength @ 2% strain	ASTM D-6637	KN/m	5
TD Tensile Strength @ 2% strain			5
MD Tensile Strength @ 5%			10.5
TD Tensile Strength @ 5%			10.5
MD Ultimate Tensile Strength			15
TD Ultimate Tensile Strength			15
STRUCTURAL INTEGRITY			
Junction Efficiency	GRI GG2	%	93
Flexural Rigidity	ASTM D-7748	mg-cm	250,000
Aperture Stability	ASTM D-7864	m-N/deg	0.32
DIMENSIONS			
Roll Width		m	3.95
Roll Length		m	75

2020 BIAXIAL GEOGRID			
MINIMUM AVERAGE ROLL VALUES (MARV)			
PROPERTIES	STANDARD	UNIT	KM2020
MECHANICAL			
MD Tensile Strength @ 2% strain	ASTM D-6637	KN/m	7
TD Tensile Strength @ 2% strain			7
MD Tensile Strength @ 5%			14
TD Tensile Strength @ 5%			14
MD Ultimate Tensile Strength			20
TD Ultimate Tensile Strength			20
STRUCTURAL INTEGRITY			
Junction Efficiency	GRI GG2	%	93
Flexural Rigidity	ASTM D 7748	mg-cm	750,000
Aperture Stability	ASTM D 7864	m-N/deg	0.5
DIMENSIONS			
Roll Width		m	3.95
Roll Length		m	50

2525 BIAXIAL GEOGRID			
MINIMUM AVERAGE ROLL VALUES (MARV)			
PROPERTIES	STANDARD	UNIT	KM2525
MECHANICAL			
MD Tensile Strength @ 2% strain	ASTM D 6637	KN/m	9
TD Tensile Strength @ 2% strain			9
MD Tensile Strength @ 5%			17
TD Tensile Strength @ 5%			17
MD Ultimate Tensile Strength			25
TD Ultimate Tensile Strength			25
STRUCTURAL INTEGRITY			
Junction Efficiency	GRI GG2	%	93
Flexural Rigidity	ASTM D 7748	mg-cm	1,000,000
Aperture Stability	ASTM D 7864	m-N/deg	0.65
DIMENSIONS			
Roll Width		m	3.95
Roll Length		m	50

3030 BIAXIAL GEOGRID			
MINIMUM AVERAGE ROLL VALUES (MARV)			
PROPERTIES	STANDARD	UNIT	KM3030
MECHANICAL			
MD Tensile Strength @ 2% strain	ASTM D 6637	KN/m	10.5
TD Tensile Strength @ 2% strain			10.5
MD Tensile Strength @ 5%			21
TD Tensile Strength @ 5%			21
MD Ultimate Tensile Strength			30
TD Ultimate Tensile Strength			30
STRUCTURAL INTEGRITY			
Junction Efficiency	GRI GG2	%	93
Flexural Rigidity	ASTM D 7748	mg-cm	2,000,000
Aperture Stability	ASTM D 7864	m-N/deg	0.75
DIMENSIONS			
Roll Width		m	3.95
Roll Length		m	50