Biaxial Geogrid KM1515-KM3030



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	TEST METHOD	UNIT	KM1515	КМ2020	KM2525	KM3030
PROPERTIES			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

KEYMAY INDUSTRIES | 53169 RR 225 SHERWOOD PARK, AB T8H 2T3 780.417.1955

Keymay is a manufacturer of geosynthetic materials and equipment for pipeline, civil, and municipal construction. We support our customers with the provision of field service crews for buoyancy control weights, protective coating, and geotextile installation. We've built a reputation for innovation and customer service, and are deeply committed to the values of safety, quality, and integrity.

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1515 BIAXIAL GEOGRID					
MINIMUM AVERAGE ROLL VALUES (MARV)					
PROPERTIES	STANDARD	UNIT	KM1515		
	MECHANICAL				
MD Tensile Strength @ 2% strain		KN/m	5		
TD Tensile Strength @ 2% strain			5		
MD Tensile Strength @ 5%			10.5		
TD Tensile Strength @ 5%	ASTM D-6637		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		KN/m	7	
TD Tensile Strength @ 2% strain			7	
MD Tensile Strength @ 5%			14	
TD Tensile Strength @ 5%	ASTM D-6637		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	STANDARD UNIT		
MECHANICAL				
MD Tensile Strength @ 2% strain		KN/m	9	
TD Tensile Strength @ 2% strain			9	
MD Tensile Strength @ 5%			17	
TD Tensile Strength @ 5%	ASTM D 6637		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	КМ3030		
	MECHANICAL				
MD Tensile Strength @ 2% strain		KN/m	10.5		
TD Tensile Strength @ 2% strain			10.5		
MD Tensile Strength @ 5%			21		
TD Tensile Strength @ 5%	ASTM D 6637		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		