

## HDPE Uniaxial Geogrid

### BBM Uniaxial Geogrids provide slope stabilization for Retaining Wall System

BBM Uniaxial Geogrids are high strength polymer grid structures that form an extremely efficient reinforcing by performing as a network of distributed anchors within a soil matrix.

BBM Uniaxial Geogrids are manufactured by a process of extruding, punching, heating and longitudinal stretching. BBM Uniaxial Geogrids are made of High Density Polyethylene and they are chemically inert, unaffected by the U.V. rays and fully resistant to aging in the soil environment.



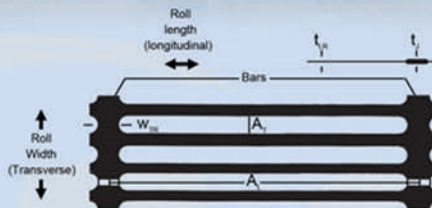
The characteristic material properties associated with BBM Uniaxial Geogrids include:

- resistance to biological degradation or attack
- chemical resistance
- weathering resistance from UV degradation through incorporating additive of carbon black
- resistance to aging from oxidation since much of the material incorporates antioxidants
- environmental stress cracking will not effect their performance.





# HDPE Uniaxial Geogrid



Product	$A_l$	$A_t$	$W_{roll}$	$t_r$	$t_j$
GG65PE	255	235	20	1.0	2.8
GG80PE	247	227	20	1.1	2.9
GG110PE	265	245	20	1.3	4.0
GG120PE	248	228	20	1.6	4.6
GG160PE	254	234	20	2.4	6.5

\* unit = mm

Index Properties	Test Method	Unit	GG60PE	GG80PE	GG120PE	GG160PE
			MD	MD	MD	MD
• Polymer	-	-	HDPE	HDPE	HDPE	HDPE
• Minimum Carbon Black	ASTM D 4218	%	2	2	2	2
• Tensile Strength @ 2% Strain	ASTM D 6637	kN/m	16	23	35	47
• Tensile Strength @ 5% Strain	ASTM D 6637	kN/m	31	44	65	85
• Ultimate Tensile Strength	ASTM D 6637	kN/m	60	80	120	160
• Strain @ Ultimate Strength	ASTM D 6637	%	10	10	10	10
• Flexural Rigidity	ASTM D 1388	mg-cm	1,400,000	2,300,000	7,700,000	19,000,000
<b>Durability</b>						
• UV Resistance	ASTM D 4355	%	98	98	98	98
• Oxidation Resistance	EN ISO 13438	%	100	100	100	100
• Brittleness	WashDOT T926	-	Pass	Pass	Pass	Pass
<b>Dimensions</b>						
• Roll Width	-	m	1	1	1	1
• Roll Length	-	m	75	50	30	30
• Roll Weight	-	kg	34	30	26	33

MD denotes Machine Direction.

**Bobema Nederland B.V.**  
special products for civil engineering  
and construction industry

P.O. Box 552  
1620 AN Hoorn  
The Netherlands  
Tel.: +31 229 211011  
Fax: +31 229 212614  
Email: info@bobema.com  
Internet: www.bobema.com



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