

### 1. Definition

Extruded geogrids that are pre-tensioned in one direction are called uniaxial geogrids and are typically used in geotechnical engineering projects concerning reinforced earth and retaining walls.



### 2. Specification

Properties	Test Method	Unit	TGDG120	
Polymer	-	-	HDPE	
Minimum carbon black	ASTM D 1603	%	2	
Tensile strength @ 5% strain	ASTM D 6637	kN/m	65	
Ultimate tensile strength	ASTM D 6637	kN/m	120	
Junction strength	GRI - GG2 -05	%	93	
Flexural stiffness	ASTM D 1388	mg-cm	7,500,000	
Uniaxial Geogrid	Resistance to UV degradaion	ASTM D 4355	%	98
	Oxidation resistance	EN ISO 13438	%	100
	Minimum reduction factor for installation damage (RFID)	ASTM D 5818	-	1.02
	Reduction factor for creep for 114-year design life (RFCR)	ASTM D 5262	-	2.25
	Roll width	-	m	1.1
Roll length	-	m	50	

The information contained herein is , to the best of our knowledge , accurate in all material respects