



1. Definition

Extruded geogrids are formed using a polymer sheet that is punched and drawn in either one or two or multiple directions for improvement of engineering properties.

Extruded geogrids that are pre-tensioned in two directions are referred to as biaxial geogrids and are typically used in pavement applications where the direction of principle stress is uncertain.

2. Specification

Properties	Test method	Unit	TGSG1100
Polymer	-	-	PP
Minimum carbon black	ASTM D 1603	%	2
Tensile strength @ 2% strain (MD/TD)	ASTM D 6637	kN/m	4.2 / 6.7
Tensile strength @ 5% strain (MD/TD)	ASTM D 6637	kN/m	8.6 / 13.6
Ultimate tensile strength (MD/TD)	ASTM D 6637	kN/m	12.5 / 19.1
Junction efficiency	GRI - GG2 -05	%	93
Flexural stiffness	ASTM D 7748	mg-cm	250,000
Aperture stability	U.S. Army COE	m-N/deg	0.32
Resistance to chemical degradation	ISO 13434-1999	%	100
Resistance to UV light and weathering	ISO 13434-1999	%	100
Aperture dimensions	-	mm	24 / 34
Minimum rib thickness	ASTM D 1777	mm	1.0 / 1.0
Roll width	-	m	3.95
Roll length	-	m	100

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