

# TECHNICAL DATA SHEET

## EXTRUDED UNIAXIAL GEOGRID **UX1450**

### DEFINITION AND TYPICAL APPLICATIONS

- Manufactured out of High Density Polyethylene (HDPE) sheets, and it is punched and drawn in one direction
- These geogrids are recommended as primary reinforcement on Mechanically Stabilized Earth Walls (MSEW) and Reinforced Soil Slopes (RSS)

### SPECIFICATIONS

UNIAXIAL GEOGRID UX1450	PROPERTIES	TEST METHOD	UNIT	RESULTS
<b>MATERIALS</b>				
	Polymer	--	--	HDPE
	Minimum carbon black	ASTM D 1603	%	2
<b>STRENGTH</b>				
	Tensile Strength @ 5% strain	ASTM D 6637	kN/m	44
	Ultimate tensile strength	ASTM D 6638	kN/m	80
	Junction strength	GRI-GG2-05	%	93
	Flexural stiffness	ASTM D 1388	mg-cm	2,200,000.00
<b>RESISTANCE</b>				
	UV degradation resistance	ASTM D 4355	%	98
	Oxidation resistance	EN ISO 13438	%	100
<b>REDUCTION FACTORS</b>				
	Reduction factor for installation damage (RF <sub>ID</sub> )	ASTM D 5818	--	1.02
	Reduction factor for creep for 114-years design life (RF <sub>CR</sub> )	ASTM D 5262	--	2.25
	Reduction factor for durability (RF <sub>D</sub> )	ASTM D 5262	--	1
<b>GEOMETRY</b>				
	Roll width	--	m	1
	Roll length	--	m	100
<small>The information contained herein is, to the best of our knowledge, accurate in all material respects                      Geopool Engineering Materials Co., Ltd</small>				