

Permagrid Uniaxial Geogrid 160

Description:

Permagrid Uniaxial Geogrid is manufactured from highest quality HDPE and is produced by extrusion and stretching in the longitudinal direction.

Performance:

High tensile strength, excellent interlocking capacity and low creep deformation.

Applications:

- Retaining walls reinforcement
- Steep slope reinforcement
- Embankment stabilisation
- Landfill Side slope reinforcement

Specifications

Index Properties	Test Method	Units	MD Values
Polymer			HDPE
Minimum Carbon Black	ASTM D 4218	%	2
Tensile Strength @ 2% strain	ASTM D 6637	kN/m	47
Tensile Strength @ 5% strain	ASTM D 6637	kN/m	85
Ultimate Tensile Strength	ASTM D 6637	kN/m	160
Strain @ Ultimate Strength	ASTM D 6637	%	11.5
Structural Integrity			
Junction Efficiency	GRI GG2-87	%	93
Flexural Rigidity	ASTM D 1388	mg-cm	19,000,000
Durability			
UV Resistance	ASTM D 4355	%	98
Oxidation Resistance	EN ISO 13438	%	100
Brittleness	washDOT T926	-	Pass
Reduction Factor			
Minimum Reduction Factor for installation Damage (RF _{id})	ASTM D5262	-	1.00
Reduction Factor for Creep, 114 year design life (RF _{cr})	ASTM D 5818	-	2.23
Dimensions			
Roll Width		m	1
Roll Length		m	30
Roll Weight		kg	29