

EGS HDPE Uniaxial Geogrid

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EGS GEOSOLUTIONS - Uniaxial Geogrid GG60PE

Introduction

EGS Uniaxial Geogrid is especially designed for soil reinforcement. It is manufactured with high quality High Density Polyethylene resins, from the process of extruding and longitudinal stretching. EGS Uniaxial Geogrid has high tensile strength, excellent interlock capacity and low creep deformation

Applications

- Retaining walls reinforcement
- Embankments stabilization
- Steep slopes reinforcement
- Landfill side slopes 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 (lb/ft)	16 (1,090)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	31 (2,130)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	60 (4,110)
■ Strain @ Ultimate Strength	ASTM D 6637	%	11.5
■ Junction Efficiency	GRI GG2-87	%	93
■ Flexural Rigidity	ASTM D 1388	mg-cm	530,000

Durability

■ UV Resistance	ASTM D 4355	%	98
■ Oxidation Resistance	EN ISO 13438	%	100
■ Brittleness	WashDOT T926	-	Pass

Reduction Factor

■ Reduction Factor of Installation Damage (RF _{id})	ASTM D5818	-	1.00
■ Reduction Factor of Creep of 114-year Design Life (RF _{cr})	ASTM D5262	-	2.23

Dimensions

■ Roll Width	-	m (ft)	1 (3.28) or 2 (6.56)
■ Roll Length	-	m (ft)	100 (328)

EGS GEOSOLUTIONS - Uniaxial Geogrid GG80PE

Introduction

EGS Uniaxial Geogrid is especially designed for soil reinforcement. It is manufactured with high quality High Density Polyethylene resins, from the process of extruding and longitudinal stretching. EGS Uniaxial Geogrid has high tensile strength, excellent interlock capacity and low creep deformation

Applications

- Retaining walls reinforcement
- Embankments stabilization
- Steep slopes reinforcement
- Landfill side slopes 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 (lb/ft)	23 (1,570)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	44 (3,010)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	80 (5,480)
■ Strain @ Ultimate Strength	ASTM D 6637	%	11.5
■ Junction Efficiency	GRI GG2-87	%	93
■ Flexural Rigidity	ASTM D 1388	mg-cm	1,100,000

Durability

■ UV Resistance	ASTM D 4355	%	98
■ Oxidation Resistance	EN ISO 13438	%	100
■ Brittleness	WashDOT T926	-	Pass

Reduction Factor

■ Reduction Factor of Installation Damage (RF _{id})	ASTM D5818	-	1.00
■ Reduction Factor for Creep of 114-year Design Life (RF _{cr})	ASTM D5262	-	2.23

Dimensions

■ Roll Width	-	m (ft)	1(3.28) or 2(6.56)
■ Roll Length	-	m (ft)	50 (164)

EGS GEOSOLUTIONS - Uniaxial Geogrid GG120PE

Introduction

EGS Uniaxial Geogrid is especially designed for soil reinforcement. It is manufactured with high quality High Density Polyethylene resins, from the process of extruding and longitudinal stretching. EGS Uniaxial Geogrid has high tensile strength, excellent interlock capacity and low creep deformation

Applications

- Retaining walls reinforcement
- Embankments stabilization
- Steep slopes reinforcement
- Landfill side slopes 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 (lb/ft)	35 (2,400)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	65 (4,450)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	120 (8,220)
■ Strain @ Ultimate Strength	ASTM D 6637	%	11.5
■ Junction Efficiency	GRI GG2-87	%	93
■ Flexural Rigidity	ASTM D 1388	mg-cm	6,000,000

Durability

■ UV Resistance	ASTM D 4355	%	98
■ Oxidation Resistance	EN ISO 13438	%	100
■ Brittleness	WashDOT T926	-	Pass

Reduction Factor

■ Reduction Factor of Installation Damage (RF _{id})	ASTM D5818	-	1.00
■ Reduction Factor for Creep of 114-year Design Life (RF _{cr})	ASTM D5262	-	2.23

Dimensions

■ Roll Width	-	m (ft)	1(3.28) or 2(6.56)
■ Roll Length	-	m (ft)	50 (164)

EGS GEOSOLUTIONS - Uniaxial Geogrid GG160PE

Introduction

EGS Uniaxial Geogrid is especially designed for soil reinforcement. It is manufactured with high quality High Density Polyethylene resins, from the process of extruding and longitudinal stretching. EGS Uniaxial Geogrid has high tensile strength, excellent interlock capacity and low creep deformation

Applications

- Retaining walls reinforcement
- Embankments stabilization
- Steep slopes reinforcement
- Landfill side slopes 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 (lb/ft)	47 (3,220)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	93 (6,370)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	160 (10,970)
■ Strain @ Ultimate Strength	ASTM D 6637	%	11.5
■ Junction Efficiency	GRI GG2-87	%	93
■ Flexural Rigidity	ASTM D 1388	mg-cm	8,500,000

Durability

■ UV Resistance	ASTM D 4355	%	98
■ Oxidation Resistance	EN ISO 13438	%	100
■ Brittleness	WashDOT T926	-	Pass

Reduction Factor

■ Reduction Factor of Installation Damage (RF _{id})	ASTM D5818	-	1.00
■ Reduction Factor for Creep of 114-year Design Life (RF _{cr})	ASTM D5262	-	2.23

Dimensions

■ Roll Width	-	m (ft)	1(3.28) or 2(6.56)
■ Roll Length	-	m (ft)	50 (164)

EGS GEOSOLUTIONS - Uniaxial Geogrid GG180PE

Introduction

EGS Uniaxial Geogrid is especially designed for soil reinforcement. It is manufactured with high quality High Density Polyethylene resins, from the process of extruding and longitudinal stretching. EGS Uniaxial Geogrid has high tensile strength, excellent interlock capacity and low creep deformation

Applications

- Retaining walls reinforcement
- Embankments stabilization
- Steep slopes reinforcement
- Landfill side slopes 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 (lb/ft)	52 (3,560)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	104 (7,130)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	180 (12,340)
■ Strain @ Ultimate Strength	ASTM D 6637	%	11.5
■ Junction Efficiency	GRI GG2-87	%	90
■ Flexural Rigidity	ASTM D 1388	mg-cm	9,400,000

Durability

■ UV Resistance	ASTM D 4355	%	98
■ Oxidation Resistance	EN ISO 13438	%	100
■ Brittleness	WashDOT T926	-	Pass

Reduction Factor

■ Reduction Factor of Installation Damage (RF _{id})	ASTM D5818	-	1.00
■ Reduction Factor for Creep of 114-year Design Life (RF _{cr})	ASTM D5262	-	2.23

Dimensions

■ Roll Width	-	m (ft)	1(3.28) or 2(6.56)
■ Roll Length	-	m (ft)	50 (164)

TMP Laboratory is improving continuously with the purpose of assuring reliable quality. TMP Geosynthetics reserves the right to change the product specifications at any time.

EGS GEOSOLUTIONS - Uniaxial Geogrid GG200PE

Introduction

EGS Uniaxial Geogrid is especially designed for soil reinforcement. It is manufactured with high quality High Density Polyethylene resins, from the process of extruding and longitudinal stretching. EGS Uniaxial Geogrid has high tensile strength, excellent interlock capacity and low creep deformation

Applications

- Retaining walls reinforcement
- Embankments stabilization
- Steep slopes reinforcement
- Landfill side slopes 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 (lb/ft)	58 (3,970)
■ Tensile Strength @ 5% Strain	ASTM D 6637	kN/m (lb/ft)	116 (7,950)
■ Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	200 (13,700)
■ Strain @ Ultimate Strength	ASTM D 6637	%	11.5
■ Junction Efficiency	GRI GG2-87	%	90
■ Flexural Rigidity	ASTM D 1388	mg-cm	9,600,000

Durability

■ UV Resistance	ASTM D 4355	%	98
■ Oxidation Resistance	EN ISO 13438	%	100
■ Brittleness	WashDOT T926	-	Pass

Reduction Factor

■ Reduction Factor of Installation Damage (RF _{id})	ASTM D5818	-	1.00
■ Reduction Factor for Creep of 114-year Design Life (RF _{cr})	ASTM D5262	-	2.23

Dimensions

■ Roll Width	-	m (ft)	1(3.28) or 2(6.56)
■ Roll Length	-	m (ft)	50 (164)

TMP Laboratory is improving continuously with the purpose of assuring reliable quality. TMP Geosynthetics reserves the right to change the product specifications at any time.