

# TMP Uniaxial Geogrid

**Uniaxial Geogrid GG60PE**

**Uniaxial Geogrid GG80PE**

**Uniaxial Geogrid GG120PE**

**Uniaxial Geogrid GG160PE**

**Uniaxial Geogrid GG180PE**

**Uniaxial Geogrid GG200PE**

## TMP GEOSYNTHETICS - Uniaxial Geogrid GG60PE

### Introduction

TMP 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. TMP 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 <sub>id</sub> )	ASTM D5818	-	1.00
■ Reduction Factor of Creep of 114-year Design Life (RF <sub>cr</sub> )	ASTM D5262	-	2.23

### Dimensions

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

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.



## TMP GEOSYNTHETICS - Uniaxial Geogrid GG80PE

### Introduction

TMP 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. TMP 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 <sub>id</sub> )	ASTM D5818	-	1.00
■ Reduction Factor for Creep of 114-year Design Life (RF <sub>cr</sub> )	ASTM D5262	-	2.23

### Dimensions

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

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## TMP GEOSYNTHETICS - Uniaxial Geogrid GG120PE

### Introduction

TMP 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. TMP 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

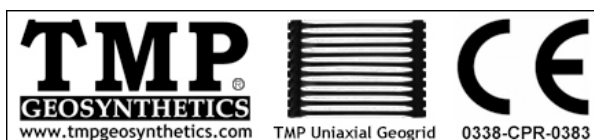
### Reduction Factor

■ Reduction Factor of Installation Damage (RF <sub>id</sub> )	ASTM D5818	-	1.00
■ Reduction Factor for Creep of 114-year Design Life (RF <sub>cr</sub> )	ASTM D5262	-	2.23

### Dimensions

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

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## TMP GEOSYNTHETICS - Uniaxial Geogrid GG160PE

### Introduction

TMP 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. TMP 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 <sub>id</sub> )	ASTM D5818	-	1.00
■ Reduction Factor for Creep of 114-year Design Life (RF <sub>cr</sub> )	ASTM D5262	-	2.23

### Dimensions

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

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## TMP GEOSYNTHETICS - Uniaxial Geogrid GG180PE

### Introduction

TMP 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. TMP 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

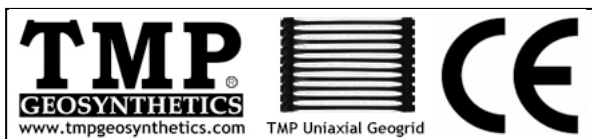
### Reduction Factor

■ Reduction Factor of Installation Damage (RF <sub>id</sub> )	ASTM D5818	-	1.00
■ Reduction Factor for Creep of 114-year Design Life (RF <sub>cr</sub> )	ASTM D5262	-	2.23

### Dimensions

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

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## TMP GEOSYNTHETICS - Uniaxial Geogrid GG200PE

### Introduction

TMP 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. TMP 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 <sub>id</sub> )	ASTM D5818	-	1.00
■ Reduction Factor for Creep of 114-year Design Life (RF <sub>cr</sub> )	ASTM D5262	-	2.23

### Dimensions

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

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