

TECHNICAL DATA SHEET NONWOVEN POLYESTER (PET)

PROPERTY	UNIT	TEST METHOD	MARV (Minimum Average Roll Value)		
			GTR SE 150	GTR SE 200	GTR SE 250
PHYSICAL CHARACTERISTIC					
Material			Polyester	Polyester	Polyester
Colour			White	White	White
Weight	gr/m ²	ASTM D5261	± 150	± 200	± 250
MECHANICAL PROPERTIES					
Grab Breaking Load and Elongation					
Max Tensile Strength, Tmax (MD)	N	ASTM D4632	507	715	970
Elongation At Max Load (MD)	%		> 60	> 60	> 60
Max Tensile Strength, Tmax (CD)	N		552	793	947
Elongation At Max Load (CD)	%		> 60	> 60	> 60
Trapezoid Tearing Strength					
Max Tearing Strength, F max (MD)	N	ASTM D4533	251	296	391
Max Tearing Strength, F max (CD)	N		224	347	377
Static Puncture Resistance					
Puncture Resistance, Fp	N	ASTM D6241	1502	2015	2466
Hydraulic Properties					
Characteristic Opening Size	mm	ASTM D4751	0.210	0.206	0.174
Water Permeability of Geotextiles by Permittivity					
Permittivity	s ⁻¹	ASTM D4491	4.45	4.22	4.03
UV Resistance % Retained after 500hrs	%	ASTM D4355	70%	70%	70%
Dimension In Roll					
Nominal Thickness	mm	ASTM D5199	1.13	1.25	1.35
Width (Maks)	meter		5	5	5
Length	meter		100	100	100
Roll Diameter (±)	meter		0.4	0.45	0.5
Class Of Geotextile					
Class			3	2	1

* The test result only to the material on the test



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Cert. No : ID21/00000015



Cert. No : ID22/00000006



Cert. No : ID22/00000005



Cert. No : ID21/00000018

WOVEN POLYPROPYLENE GEOTEXTILE

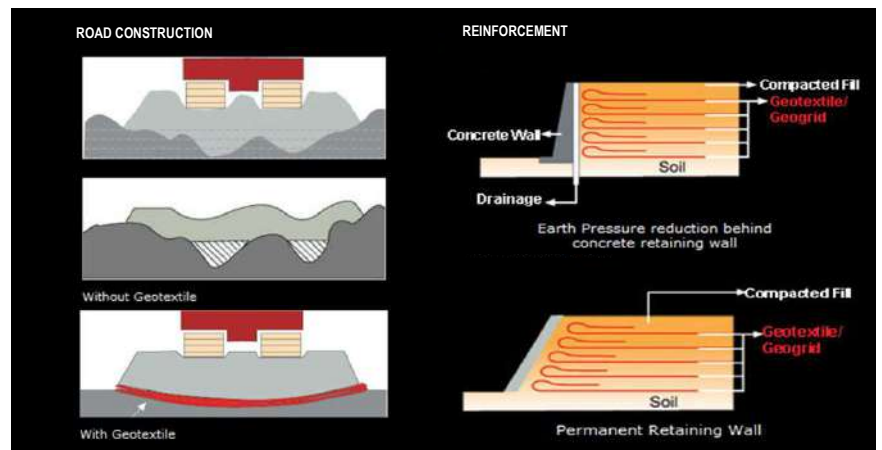


Maxmat adalah Woven Geotextile produk Indonesia yang berupa lembaran dan terbuat dari bahan Polypropylene polymer (PP) yang ditenun (danyam) dengan teknologi yang tinggi dan pengawasan mutu yang ketat sehingga menghasilkan produk geotextile yang bermutu dengan kuat tarik yang tinggi.

Maxmat dibuat khusus untuk mengatasi masalah perbaikan tanah yang terkait di bidang teknik sipil secara efisien dan efektif serta sudah terbukti dan teruji berfungsi baik untuk kondisi tanah-tanah yang jelek di berbagai provinsi di Indonesia.

Aplikasi :

1. Konstruksi jalan
2. Konstruksi jalan kereta api
3. Perkuatan timbunan
4. Reklamasi
5. Penguatan longsor atau lereng
6. Bendungan
7. Area parkir
8. Pemecah gelombang dan jety
9. Revetment dan riprapp pada pantai
10. Land Development



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ISO 9001 : 2015

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Cert. No. : ID22/0000005
ISO 45001 : 2018

Cert. No. : ID21/00000018
ISO 14001 : 2015

WOVEN POLYPROPYLENE GEOTEXTILE

PROPERTIES		TEST	UNIT	MAXMAT 15-P	MAXMAT 20-P	MAXMAT 25-P
PHYSICAL						
Weight		ASTM D5261	g/m ²	±150	±200	±250
Raw Material				PP	PP	PP
Colour				Black	Black	Black
MECHANICAL						
Tensile Strength Maximum	md	ASTM D4595	kN/m	30	40	50
Elongation at maximum load	md	ASTM D4595	%	<35	<35	<35
Tear Strength	md/cd	ASTM D4533	N	430/330	630/440	760/610
Grab tensile strength	md/cd	ASTM D4632	N	1000/840	1500/1300	1800/1500
Grab Elongation	md/cd	ASTM D4632	%	<30	<30	<30
Puncture Strength		ASTM D6241	N	3500	4600	5100
HYDRAULICS						
Aperent Opening Size (AOS)		ASTM D4751	mm	<0,4	<0,4	<0,4
Permittivity		ASTM D4491	S ⁻¹	0.05	0.05	0.05
DIMENTION						
Roll width			m	4	4	4
Roll length			m	200	150/200	150

The listed technical values are guiding values, achieved from independent testing institutes with (+/-) 20% tolerance for the mechanical and 30% for the hydraulics. Our product are subject to changes without prior notice.

The information contained here in is to the best of our knowledge accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept any loss or damage, however arising, which result directly or indirectly from use or such nor do we offer warranty or immunity agains patent infringement.



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TECHNICAL DATA

Date of issue: 14 Sep 2022
 Project name: East Coast Mining
 Product name: **Mirafi PET100-100**
 Manufacturer: TenCate Industrial Zhuhai Co., Ltd
 Character of the geotextile: High strength polyester yarns with low creep property

Characteristic initial strength (MD/CD)	(kN/m)	100/100	ISO 10319
Characteristic tensile strength at 5% strain (MD)	(kN/m)	40	ISO 10319
Strain at initial strength (MD)	(%)	10	ISO 10319
CBR puncture strength	(N)	7500	ASTM D6241
Permittivity	(s ⁻¹)	0.03	ASTM D4491

Material reduction factor creep-rupture, f_{cr}
 at 60 years design life 1.41
 at 120 years design life 1.43

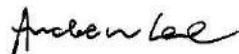
Material reduction factor installation damage, f_{id}
 in clay, silt or sand 1.15

Material reduction factor environmental effects ($4 < \text{pH} < 9$), f_{en}
 at 60 years design life 1.03
 at 120 years design life 1.06

Creep limited strength based on creep-rupture, T_{CR}
 at 60 years design life (kN/m) 71
 at 120 years design life (kN/m) 70

Long term design strength in clay, silt or sand, T_D
 at 60 years design life (kN/m) 60
 at 120 years design life (kN/m) 57

Issued by:



Andrew Lee
 (Quality Manager)



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