

Issued to: KONKAN RAILWAY CORPORATION LIMITED.

Report no.: 17101602/1710160202

Date: 24-10-2017

OFFICE OF DY. CHIEF ENGINEER,  
DISTT. REASI,  
J&K

Sample Description:  
"WATERPROOFING MEMBRANE 2mm THICK"

DOR: 16-10-2017

BRAND: GAYATRI GEOSYNTHETICS; SOURCE: GAYATRI & POLYMERS & GEOSYNTHETICS  
FOR THE CONSTRUCTION OF BALANCE TUNNELLING WORKS OF TUNNEL-T5 TWIN TUBE  
ON THE KATRA DHARAM SECTION OF UDHAMPUR SRINAGAR- BARAMULLA RAIL LINK PROJECT.

Phone/fax:  
Kind Attn:

Your Ref. No. : KR/P/JK/DyCE/TS/MAXINFRA/2017-18...Dt: 12-10-2017

Date of Start of Test: 16-10-2017

Date of Completion: 24-10-2017

S.No.	TESTS	RESULTS	SPECIFIED VALUE	TEST METHOD
1.	Thickness, mm	2.1	2.0 - ±7.5%	IS 15909
2.	Specific Gravity (g/cm <sup>3</sup> )	1.35	1.30 - 1.40	IS 15909
3.	Strength at break, kg/cm <sup>2</sup>	188	160 Min	IS 15909
4.	Elongation at break, %	265	250 Min	IS 15909
5.	Puncture Resistance, Kg	21	15 Min	IS 15909
6.	Tear Resistance, a) Warp, b) Weft, cm	62 80	55 70	IS 15909
7.	Carbon Black Content, %	2.4	0.5 - 2.5	IS 15909
8.	Low Crack Resistance	No Crack	Shall not break, crack at 28°C	IS 15909
9.	Water Absorption, %	0.11	0.15	IS 15909
10.	Roll Dimension: a) Length b) Width	2.15 20.5	2.1 20	IS 15909
11.	Volume per Roll, SQM	44.075	--	IS 15909

—END OF REPORT—



सेन्द्रीय इंस्टिट्यूट ऑफ प्लास्टिक्स  
इंजीनियरिंग एण्ड टेक्नोलॉजी

(स्थापन एवं परीक्षा केंद्र, भारत सरकार)

630, फेज IV, जी.डी.सी. वावा, अहमदाबाद - 382 445

दूरभाष : 079-40103900 / 40103923 फैक्स : 40083906

Email : cpeta@nic@gmail.com / ahmedabad@cipet.gov.in

Website : www.cipet.gov.in



CENTRAL INSTITUTE OF PLASTICS  
ENGINEERING AND TECHNOLOGY

(Ministry of Chemicals & Fertilizers, Govt. of India)

630, Ph. IV, G.D.C. Vava, Ahmedabad - 382 445

Ph. : 079-40103900 / 40103923 Fax : 40083906

Email : cpeta@nic@gmail.com / ahmedabad@cipet.gov.in

Website : www.cipet.gov.in



PLASTICS TESTING CENTRE

Series : F

TEST CERTIFICATE

S.L. No.

8585

Issued to :

Gayatri Polymers & Geosynthetics  
28, Unique Trade Centre,  
Opp. P.M.Regency Hotel, Sayajigunj,  
Vadodara - 390 005

Test Report No. :

3563

Dated :

01.11.2017

Your Ref. No. :

GPS/MAXINFRA/1110/17.18

Dated :

11.10.2017

Test Report as per Standard :

As per part C

PART A

PARTICULARS OF SAMPLE SUBMITTED

a) Name of Sample ( as stated by party) :	GPS PVC Waterproof Membrane & Geotextile
b) Grade / variety / type / size / class :	NA
c) Declared value, if any :	NA
d) Code No. :	NA
e) Batch No. and Date of Manufacture :	Batch No : 091017A
f) Quantity :	1 No
g) Mode of Packing :	Packed in Envelope
h) Date of Receipt :	23.10.2017
i) Date of Completion :	01.11.2017
j) Sealed or not :	NA
k) Any other information :	Material: PVC, Other Information: Tunnel- T-5

PART B

SUPPLEMENTARY INFORMATION

a) Reference to sampling procedure :	Samples Supplied by the Party
b) Supporting documents for the measurement taken and result derived :	As per Part C
c) Deviation from the test method as prescribed in relevant work Instructions, if any :	Not Applicable

1 of 2

सेन्ट्रल इंस्टिट्यूट ऑफ प्लास्टिक्स  
इंजीनियरिंग एण्ड टेक्नोलॉजी

(स्थापन एवं जॉइंट वेंचर, भारत सरकार)

830, प्लॉट नं. 4, जीआरडीसी, वडा, अहमदाबाद - 382 445

दूरभाष : 079-40103900 / 40103923 फैक्स : 40083905

Email : cpetahmd@gmail.com / ahmedabad@cpet.gov.in

Website : www.cpet.gov.in



CENTRAL INSTITUTE OF PLASTICS  
ENGINEERING AND TECHNOLOGY

(Ministry of Chemicals & Fertilizers, Govt. of India)

830, Pl. No. GDC, Wada, Ahmedabad - 382 445

Ph.: 079-40103900 / 40103923 Fax: 40083905

Email : cpetahmd@gmail.com / ahmedabad@cpet.gov.in

Website : www.cpet.gov.in

PLASTICS TESTING CENTRE

GPS PVC Waterproof Membrane &  
Geotextile

Test Report No. 3563

Dated : 01.11.2017

PART C  
TEST RESULTS

Sr. No.	Test	Test Method	Unit	Result Obtained
1	Specific Gravity	IS 15909	---	1.34
2	Thickness		mm	2.1
3	Tensile Strength at Yield		kg/cm <sup>2</sup>	164
	Elongation at Break		%	267
4	Tear Resistance Warp Weft		kg/cm	56
			69	
5	Water Absorption		%	0.11

PART D

REMARKS : Nil

NOTE

- The results related only to the items tested
- The report shall not be reproduced in full/part without written approval of the laboratory

  
Authorized Signatory

  
Authorized Signatory

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इंजीनियरिंग एण्ड टेक्नोलॉजी

(रसायन एवं उर्वरक मंत्रालय, भारत सरकार)

630, फेज 4, जीआईडीसी, वटवा, अहमदाबाद-382 445.  
दूरभाष: 079-40103900 / 40103923 फेक्स: 40083905  
ईमेल: cipetahmd@gmail.com  
वेबसाइट: www.cipet.gov.in



**CENTRAL INSTITUTE OF PLASTICS  
ENGINEERING AND TECHNOLOGY**

(Ministry of Chemicals & Fertilizers, Govt. of India)

630, Phase IV, GIDC, Vatva, Ahmedabad - 382 445.  
Tele. : 079-40103900 / 40103923 Fax: 40083905  
E.mail: cipetahmd@gmail.com  
Website: www.cipet.gov.in

**PLASTICS TESTING CENTRE**

Series: G

**TEST CERTIFICATE**

S.L. No. 2003

Issued to:

Gayatri Polymers & Geosynthetics  
28. Unique Trade Centre,  
Opp. P.M.Regency Hotel, Sayajigunj,  
Vadodara - 390 005

Test Report No. : 39

Dated : 06.04.2018

Your Ref. No. : GPS/PATELENGG/0204/

Dated : 18.19  
02.04.2018

Test Report as per Standard: As per part C

**PART A  
PARTICULARS OF SAMPLE SUBMITTED**

a) Name of Sample ( as stated by party)	: GPS PVC Waterproof Geotextile
b) Grade / variety / type / size / class	: NA
c) Declared value, if any	: NA
d) Code No.	: NA
e) Batch No. and Date of Manufacture	: Batch No : 090318A
f) Quantity	: 1 No
g) Mode of Packing	: Packed in Envelope
h) Date of Receipt	: 03.04.2018
i) Date of Completion	: 06.04.2018
j) Sealed or not	: NA
k) Any other information	: Material: Geotextile, Other Information: Tunnel- T-2

**PART B  
SUPPLEMENTARY INFORMATION**

a) Reference to sampling procedure	: Samples Supplied by the Party
b) Supporting documents for the measurement taken and result derived	: As per Part C
c) Deviation from the test method as prescribed in relevant work Instructions, if any	: Not Applicable

1 of 2

SJL

सेन्ट्रल इंस्टिट्यूट ऑफ प्लास्टिक्स  
इंजीनियरिंग एण्ड टेक्नोलॉजी

(रसायन एवं उर्वरक मंत्रालय, भारत सरकार)

630, फेज 4, जीआईडीसी, वटवा, अहमदाबाद-382 445.  
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PLASTICS TESTING CENTRE

GPS PVC Waterproof Geotextile

Test Report No. 39

Dated : 06.04.2018

PART C  
TEST RESULTS

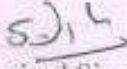
Sr. No.	Test	Test Method	Unit	Result Obtained
1	GSM	ASTM D 5261	---	713
2	Puncture Strength	ASTM D 6241	N	2200
3	Trapezoidal Tear	ASTM D 4533	N	758
4	Grab Strength Machine Direction Transverse Direction	ASTM D 4632	N	1222 1230

PART D

REMARKS : Nil

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