



TC-5389

**ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION**

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ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

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Web : http://www.erda.org



ULR No. TC538924000028485F

RP-2425-027051

<b>TEST REPORT</b>		SHEET 1 OF 2
<b>NAME AND ADDRESS OF CUSTOMER</b>  Terasol Energy Private Limited 113, GIDC Manjusar, Taluka Savli, Vadodara Gujarat 391775	REPORT No.	RP-2425-027051
	DATE OF ISSUE	10-12-2024
	CUSTOMER REF. No.	Letter
	DATED	15-10-2024
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	22-10-2024	04-12-2024
<b>SAMPLE DESCRIPTION</b> (As provided by customer)  EVA Encapsulant Sheet, Cured sample Nominal Thickness: 0.650 mm	<b>SAMPLE IDENTIFICATION</b>  ERDA Sample Code No.: ERDA-00604067	
<b>Sr. No.</b>	<b>TEST DETAILS</b>	<b>TEST SPECIFICATION</b>
1.	Dielectric strength ac in air	ASTM D149-20
<b>REMARKS:</b> (1) Requirement value is not mentioned in the test specification, hence remarks for conformity is not given in the test report. (2) Photograph of sample is on SHEET 2 OF 2.		
 CHECKED BY		 (Anil B. Patil) APPROVED BY
<b>Note:</b> <ol style="list-style-type: none"> <li>This report relates only to the particular sample received for testing in good condition at ERDA, Vadodara.</li> <li>This report cannot be reproduced in part under any circumstances.</li> <li>Publication of this report requires prior permission in writing from Director, ERDA.</li> <li>This report shall not be used for any purpose such as PR brochures, propaganda, advertisement and/or legal proceedings, unless for the granted purpose.</li> <li>Only the tests asked for by the customer have been carried out.</li> <li>Particulars of manufacturer/supplier, given in this report are based on information supplied by the customer, along with the test request/sample. ERDA does not assume any responsibility for the correctness of the information for above mentioned sample under test (SUT). ERDA will not be responsible for any changes in SUT made after the test. This test report is given as per instrument status while testing.</li> <li>In case of any dispute, Vadodara will be the exclusive jurisdiction &amp; shall be construed as where the cause has arised.</li> </ol>		
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TC 3728011



TC-5389

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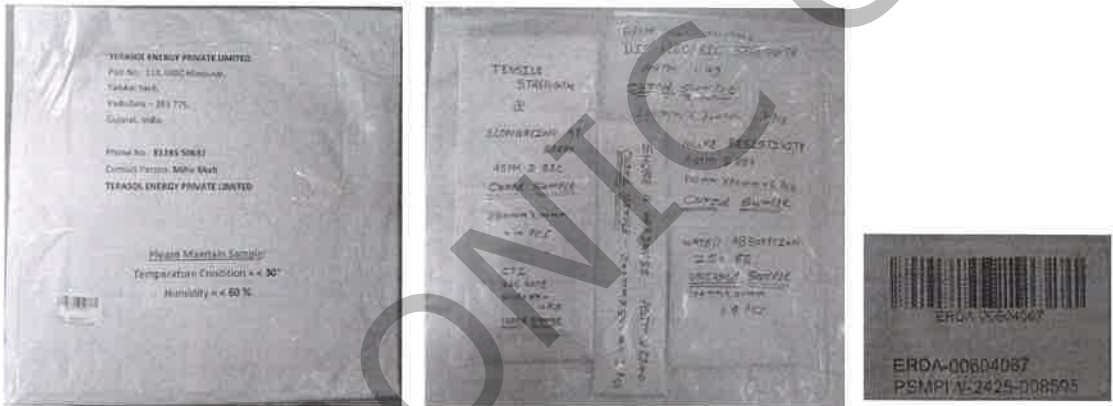

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ULR No. TC538924000028485F

Discipline: Electrical Testing

Group: Insulating Materials & Insulators

TEST REPORT No. RP-2425-027051		DATE OF ISSUE 10-12-2024	SHEET 2 OF 2	
Sr. No.	Particular of Tests & Cl. No.	Requirements as per specification	Obtained value	Remarks
1.	Dielectric strength ac, kV/mm (Short-time test in air at 26°C, 50 Hz) Cl. No. 12.2.1 Average of measured thickness: 0.59mm	---	Average 36.9	---
				
Photograph of sample in as received condition				
CHECKED BY				

\*\*\*\*\*End of Test Report\*\*\*\*\*

TC 3728012



TC-5389

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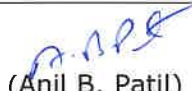
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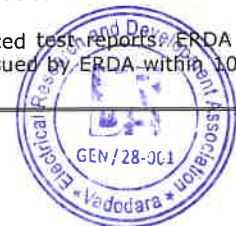
Web : http://www.erda.org



ULR No. TC538924000028608F

RP-2425-027218

TEST REPORT		SHEET 1 OF 2
<b>NAME AND ADDRESS OF CUSTOMER</b>  Terasol Energy Private Limited 113, GIDC Manjusar, Taluka Savli, Vadodara Gujarat 391775	REPORT No.	RP-2425-027218
	DATE OF ISSUE	11-12-2024
	CUSTOMER REF. No. DATED	Letter 15-10-2024
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	22-10-2024	09-12-2024 to 11-12-2024
<b>SAMPLE DESCRIPTION</b> (As provided by customer)  EVA Encapsulant Sheet, Uncured sample Nominal Thickness: 0.650 mm	<b>SAMPLE IDENTIFICATION</b>  ERDA Sample Code No.:ERDA-00604067	
<b>Sr. TEST DETAILS No.</b>	<b>TEST SPECIFICATION</b>	
1. Water absorption	ISO 62:2008	
<b>REMARKS:</b> (1) Requirement value is not mentioned in the test specification, hence remarks for conformity is not given in the test report. (2) Photograph of sample is on SHEET 2 OF 2.		
CHECKED BY 	APPROVED BY (Anil B. Patil) 	
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TC 3728023



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ULR No. TC538924000028608F

Discipline: Electrical Testing

Group: Insulating Materials & Insulators

TEST REPORT No. RP-2425-027218		DATE OF ISSUE 11-12-2024	SHEET 2 OF 2	
Sr. No.	Particular of Tests & Cl. No.	Requirements as per specification	Obtained value	Remarks
1.	Water absorption, % (After immersion in water at 24°C for 24 hrs) Cl. No. 6.3	---	Average 0.20	---
 <p>Photograph of sample in as received condition</p>				
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\*\*\*\*\*End of Test Report\*\*\*\*\*

TC 3728024



TC-5389

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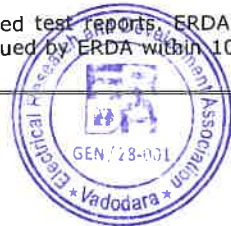
Web : http://www.erda.org



ULR No. TC538924000028491F

RP-2425-027056

TEST REPORT		SHEET 1 OF 2
<b>NAME AND ADDRESS OF CUSTOMER</b>  Terasol Energy Private Limited 113, GIDC Manjusar, Taluka Savli, Vadodara Gujarat 391775	REPORT No.	RP-2425-027056
	DATE OF ISSUE	10-12-2024
	CUSTOMER REF. No. DATED	Letter 15-10-2024
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	22-10-2024	06-12-2024
<b>SAMPLE DESCRIPTION</b> (As provided by customer)  EVA Encapsulant Sheet, Cured sample Nominal Thickness: 0.650 mm	<b>SAMPLE IDENTIFICATION</b>  ERDA Sample Code No.: ERDA-00604067	
<b>Sr. No.</b>	<b>TEST DETAILS</b>	<b>TEST SPECIFICATION</b>
1.	Tensile strength & Elongation	ASTM D882-18
<b>REMARKS:</b> (1) Requirement value is not mentioned in the test specification, hence remarks for conformity is not given in the test report. (2) Photograph of sample is on SHEET 2 OF 2.		
CHECKED BY 		(Anil B. Patil) APPROVED BY
<b>Note:</b> <ol style="list-style-type: none"> <li>This report relates only to the particular sample received for testing in good condition at ERDA, Vadodara.</li> <li>This report cannot be reproduced in part under any circumstances.</li> <li>Publication of this report requires prior permission in writing from Director, ERDA.</li> <li>This report shall not be used for any purpose such as PR brochures, propaganda, advertisement and/or legal proceedings, unless for the granted purpose.</li> <li>Only the tests asked for by the customer have been carried out.</li> <li>Particulars of manufacturer/supplier, given in this report are based on information supplied by the customer, along with the test request/sample. ERDA does not assume any responsibility for the correctness of the information for above mentioned sample under test (SUT). ERDA will not be responsible for any changes in SUT made after the test. This test report is given as per instrument status while testing.</li> <li>In case of any dispute, Vadodara will be the exclusive jurisdiction &amp; shall be construed as where the cause has arised.</li> </ol>		
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TC 3728021



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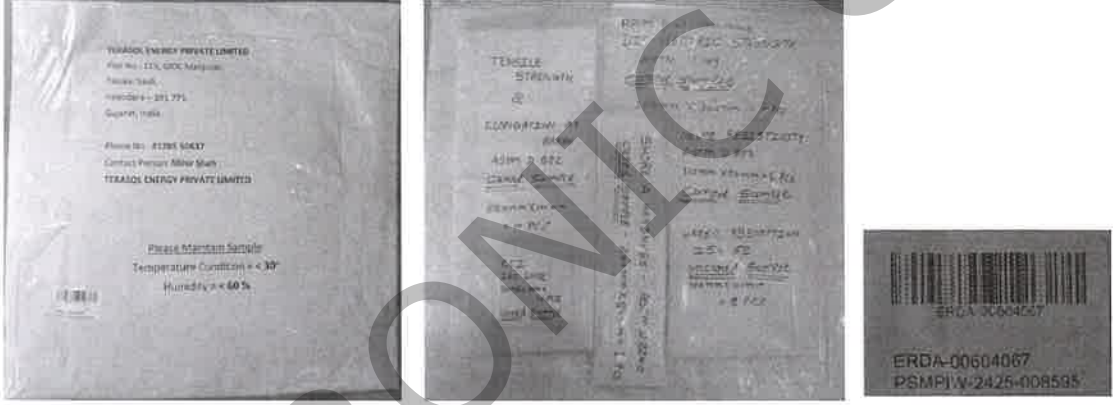


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ULR No. TC538924000028491F

Discipline: Electrical Testing

Group: Insulating Materials & Insulators

TEST REPORT No. RP-2425-027056		DATE OF ISSUE 10-12-2024	SHEET 2 OF 2	
Sr. No.	Particular of Tests & Cl. No.	Requirements as per specification	Obtained value	Remarks
1.	Tensile strength and elongation at break Cl. No. 11			
	(i) Tensile strength, MPa	---	Average 12.2	---
	(ii) Elongation at break, %	---	Average 627	---
 <p>Photograph of sample in as received condition</p>				
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\*\*\*\*\*End of Test Report\*\*\*\*\*

TC 3728022



TC-5389

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ULR No. TC538924000028490F

RP-2425-027055

<b>TEST REPORT</b>		SHEET 1 OF 2
<b>NAME AND ADDRESS OF CUSTOMER</b>  Terasol Energy Private Limited 113, GIDC Manjusar, Taluka Savli, Vadodara Gujarat 391775	REPORT No.	RP-2425-027055
	DATE OF ISSUE	10-12-2024
	CUSTOMER REF. No.	Letter
	DATED	15-10-2024
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	22-10-2024	06-12-2024
<b>SAMPLE DESCRIPTION</b> (As provided by customer)  EVA Encapsulant Sheet, Cured sample Nominal Thickness: 0.650 mm	<b>SAMPLE IDENTIFICATION</b>  ERDA Sample Code No.:ERDA-00604067	
<b>Sr. No.</b>	<b>TEST DETAILS</b>	<b>TEST SPECIFICATION</b>
1.	Hardness	ASTM D2240 – 15 <sup>E1</sup>
<b>REMARKS:</b> (1) Requirement value is not mentioned in the test specification, hence remarks for conformity is not given in the test report. (2) Photograph of sample is on SHEET 2 OF 2.		
CHECKED BY		(Anil B. Patil) APPROVED BY
<p>Note:</p> <ol style="list-style-type: none"> <li>This report relates only to the particular sample received for testing in good condition at ERDA, Vadodara.</li> <li>This report cannot be reproduced in part under any circumstances.</li> <li>Publication of this report requires prior permission in writing from Director, ERDA.</li> <li>This report shall not be used for any purpose such as PR brochures, propaganda, advertisement and/or legal proceedings, unless for the granted purpose.</li> <li>Only the tests asked for by the customer have been carried out.</li> <li>Particulars of manufacturer/supplier, given in this report are based on information supplied by the customer, along with the test request/sample. ERDA does not assume any responsibility for the correctness of the information for above mentioned sample under test (SUT). ERDA will not be responsible for any changes in SUT made after the test. This test report is given as per instrument status while testing.</li> <li>In case of any dispute, Vadodara will be the exclusive jurisdiction &amp; shall be construed as where the cause has arisen.</li> </ol> <p>Caution: ERDA is not responsible for the authenticity of photocopied or reproduced test reports. ERDA provides support to customers for verification of the authenticity of test reports issued by ERDA within 10 years of date of issue of report.</p>		



TC 3728019



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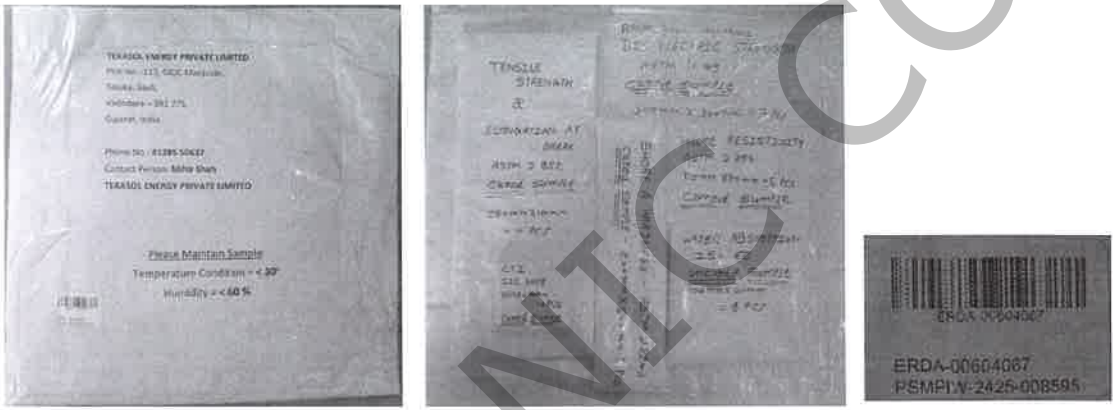

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ULR No. TC538924000028490F

Discipline: Electrical Testing

Group: Insulating Materials & Insulators

TEST REPORT No. RP-2425-027055		DATE OF ISSUE 10-12-2024	SHEET 2 OF 2	
Sr. No.	Particular of Tests & Cl. No.	Requirements as per specification	Obtained value	Remarks
1.	Hardness, Shore A Cl. No. 9	---	Average 78	---
				
Photograph of sample in as received condition				
<p>CHECKED BY </p>				

\*\*\*\*\*End of Test Report\*\*\*\*\*



TC 3728020



TC-5389

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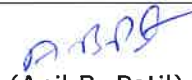
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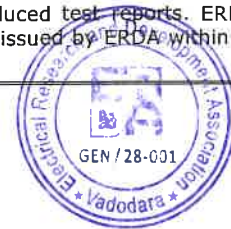
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ULR No. TC538924000028488F

RP-2425-027054

<b>TEST REPORT</b>		SHEET 1 OF 2
<b>NAME AND ADDRESS OF CUSTOMER</b>  Terasol Energy Private Limited 113, GIDC Manjusar, Taluka Savli, Vadodara Gujarat 391775	REPORT No.	RP-2425-027054
	DATE OF ISSUE	10-12-2024
	CUSTOMER REF. No. DATED	Letter 15-10-2024
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	22-10-2024	04-12-2024 to 05-12-2024
<b>SAMPLE DESCRIPTION</b> (As provided by customer)  EVA Encapsulant Sheet, Cured sample Nominal Thickness: 0.650 mm	<b>SAMPLE IDENTIFICATION</b>  ERDA Sample Code No.:ERDA-00604067	
<b>Sr. TEST DETAILS No.</b>	<b>TEST SPECIFICATION</b>	
1. Comparative Tracking Index	IEC 60112:2020	
<b>REMARKS:</b> (1) Requirement value is not mentioned in the test specification, hence remarks for conformity is not given in the test report. (2) Photograph of sample is on SHEET 2 OF 2.		
CHECKED BY 	APPROVED BY (Anil B. Patil) 	
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TC 3728017



TC-5389

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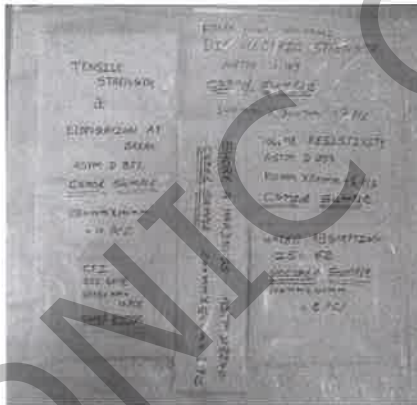
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Discipline: Electrical Testing

Group: Insulating Materials & Insulators

TEST REPORT No. RP-2425-027054      DATE OF ISSUE 10-12-2024      SHEET 2 OF 2

Sr. No.	Particular of Tests & Cl. No.	Requirements as per specification	Obtained value	Remarks
1.	Comparative Tracking Index(CTI), Volts Cl. No. 11 Average Measured Thickness: 3.27mm (Stacked Thickness)	--	"CTI >600"	--



Photograph of sample in as received condition

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\*\*\*\*\*End of Test Report\*\*\*\*\*



TC 3728018



TC-5389

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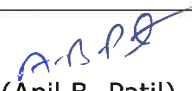
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Web : http://www.erda.org



ULR No. TC538924000028487F

RP-2425-027053

<b>TEST REPORT</b>		SHEET 1 OF 2
<b>NAME AND ADDRESS OF CUSTOMER</b>  Terasol Energy Private Limited 113, GIDC Manjusar, Taluka Savli, Vadodara Gujarat 391775	REPORT No.	RP-2425-027053
	DATE OF ISSUE	10-12-2024
	CUSTOMER REF. No.	Letter
	DATED	15-10-2024
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	22-10-2024	03-12-2024 to 04-12-2024
<b>SAMPLE DESCRIPTION</b> (As provided by customer)  EVA Encapsulant Sheet, Cured sample Nominal Thickness: 0.650 mm	<b>SAMPLE IDENTIFICATION</b>  ERDA Sample Code No.:ERDA-00604067	
<b>Sr. TEST DETAILS No.</b>	<b>TEST SPECIFICATION</b>	
1.	Volume resistivity	ASTM D 257-14
<b>REMARKS:</b> (1) Requirement value is not mentioned in the test specification, hence remarks for conformity is not given in the test report. (2) Photograph of sample is on SHEET 2 OF 2.		
 CHECKED BY	 (Anil B. Patil) APPROVED BY	
<b>Note:</b> <ol style="list-style-type: none"> <li>This report relates only to the particular sample received for testing in good condition at ERDA, Vadodara.</li> <li>This report cannot be reproduced in part under any circumstances.</li> <li>Publication of this report requires prior permission in writing from Director, ERDA.</li> <li>This report shall not be used for any purpose such as PR brochures, propaganda, advertisement and/or legal proceedings, unless for the granted purpose.</li> <li>Only the tests asked for by the customer have been carried out.</li> <li>Particulars of manufacturer/supplier, given in this report are based on information supplied by the customer, along with the test request/sample. ERDA does not assume any responsibility for the correctness of the information for above mentioned sample under test (SUT). ERDA will not be responsible for any changes in SUT made after the test. This test report is given as per instrument status while testing.</li> <li>In case of any dispute, Vadodara will be the exclusive jurisdiction &amp; shall be construed as where the cause has arisen.</li> </ol>		
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TC 3728015



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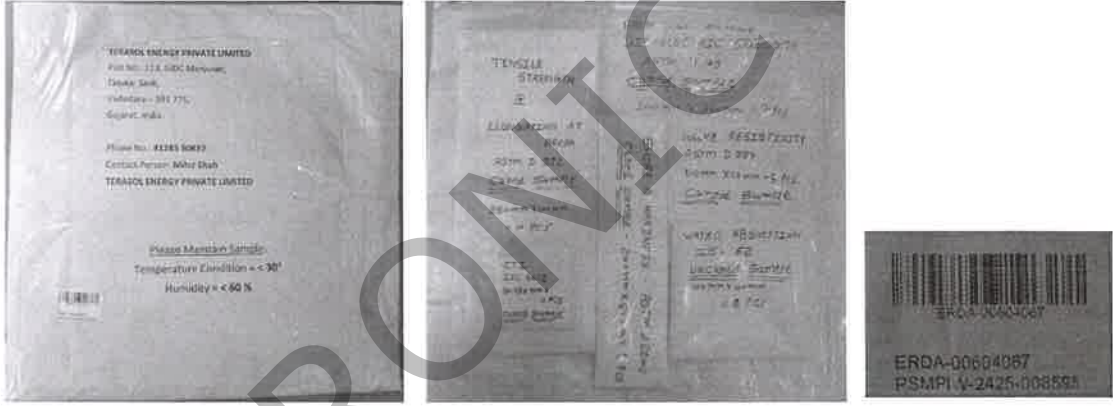

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ULR No. TC538924000028487F

Discipline: Electrical Testing

Group: Insulating Materials & Insulators

TEST REPORT No. RP-2425-027053		DATE OF ISSUE 10-12-2024	SHEET 2 OF 2	
Sr. No.	Particular of Tests & Cl. No.	Requirements as per specification	Obtained value	Remarks
1.	Volume resistivity, $\Omega \cdot \text{cm}$ (in air at 26 °C) Cl. No. 12.2 Applied Voltage: 500Vdc Electrification Time: 60 seconds Average of measured thickness: 0.58mm	---	Average $2.18 \times 10^{15}$	---
 <p>Photograph of sample in as received condition</p>				
<p>CHECKED BY </p>				

\*\*\*\*\*End of Test Report\*\*\*\*\*



TC 3728016



TC-5389

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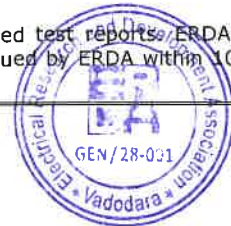
ULR No. TC538924000028486F

RP-2425-027052

**TEST REPORT**

SHEET 1 OF 2

<b>NAME AND ADDRESS OF CUSTOMER</b>  Terasol Energy Private Limited 113, GIDC Manjusar, Taluka Savli, Vadodara Gujarat 391775	REPORT No.	RP-2425-027052
	DATE OF ISSUE	10-12-2024
	CUSTOMER REF. No.	Letter
	DATED	15-10-2024
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	22-10-2024	04-12-2024
<b>SAMPLE DESCRIPTION</b> (As provided by customer)  EVA Encapsulant Sheet, Cured sample Nominal Thickness: 0.650 mm	<b>SAMPLE IDENTIFICATION</b>  ERDA Sample Code No.: ERDA-00604067	
<b>Sr. TEST DETAILS No.</b>	<b>TEST SPECIFICATION</b>	
1. Breakdown Voltage a.c.in air	ASTM D149-20	
<b>REMARKS:</b> (1) Requirement value is not mentioned in the test specification, hence remarks for conformity is not given in the test report. (2) Photograph of sample is on SHEET 2 OF 2.		
CHECKED BY	(Anil B. Patil) APPROVED BY	
<p>Note:</p> <ol style="list-style-type: none"> <li>This report relates only to the particular sample received for testing in good condition at ERDA, Vadodara.</li> <li>This report cannot be reproduced in part under any circumstances.</li> <li>Publication of this report requires prior permission in writing from Director, ERDA.</li> <li>This report shall not be used for any purpose such as PR brochures, propaganda, advertisement and/or legal proceedings, unless for the granted purpose.</li> <li>Only the tests asked for by the customer have been carried out.</li> <li>Particulars of manufacturer/supplier, given in this report are based on information supplied by the customer, along with the test request/sample. ERDA does not assume any responsibility for the correctness of the information for above mentioned sample under test (SUT). ERDA will not be responsible for any changes in SUT made after the test. This test report is given as per instrument status while testing.</li> <li>In case of any dispute, Vadodara will be the exclusive jurisdiction &amp; shall be construed as where the cause has arised.</li> </ol> <p>Caution: ERDA is not responsible for the authenticity of photocopied or reproduced test reports. ERDA provides support to customers for verification of the authenticity of test reports issued by ERDA within 10 years of date of issue of report.</p>		



TC 3728013



TC-5389

# ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

(Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India)

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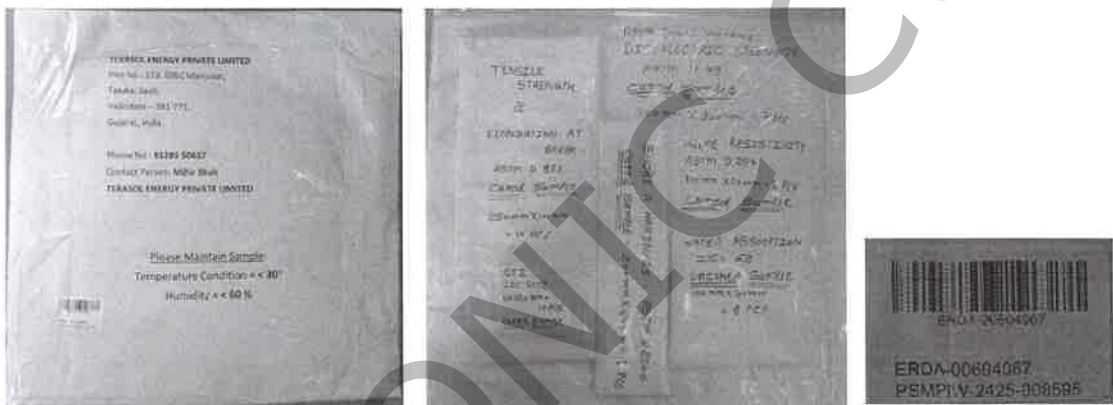


Web : http://www.erda.org



ULR No. TC538924000028486F

Discipline: Electrical Testing

Group: Insulating Materials & Insulators

TEST REPORT No. RP-2425-027052		DATE OF ISSUE 10-12-2024	SHEET 2 OF 2	
Sr. No.	Particular of Tests & Cl. No.	Requirements as per specification	Obtained value	Remarks
1.	Breakdown Voltage a.c., kV (Short time test in air at 50Hz, 26°C) Cl. No. 12.2.1	---	Average 21.7	---
				
Photograph of sample in as received condition				
 CHECKED BY				

\*\*\*\*\*End of Test Report\*\*\*\*\*

TC 3728014

सिपेट : पेट्रोकेमिकल्स तकनीकी  
संस्थान ( आई.पी.टी. )

( पूर्व में केंद्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान )  
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वेबसाईट : www.cipet.gov.in  
मुख्यालय : सिपेट, गिण्डी, चेन्नै - 600 032



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TECHNOLOGY (IPT)

( Formerly Central Institute of Plastics Engineering & Technology )  
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प्लास्टिक परीक्षण केंद्र / PLASTIC TESTING CENTRE

श्रृंखला: बी / Series : C

परीक्षण रिपोर्ट / TEST REPORT

क्र.सं / S.L. No.

24119

को जारी / Issued to : **Terasol Energy Private Limited**  
Plot No. 113, GIDC Manjusar,  
Taluka : Savli,  
Vadodara - 391 775  
Gujarat

रिपोर्ट सं / Test Report No : **3064**

दिनांक / Dated : **14.10.2024**

संदर्भ / Your Ref. No. :

दिनांक / Dated : **Letter**

मानक के अनुसार टेस्ट रिपोर्ट  
Test Report as per Standard :

As per part C

07.10.2024

**PART A**

**PARTICULARS OF SAMPLE SUBMITTED**

- a) Name of Sample ( as stated by party ) : **EVA Encapsulant Sheet**  
b) Grade / variety / type / size / class : **NA**  
c) Declared value, if any : **NA**  
d) Code No. : **NA**  
e) Batch No. and Date of Manufacture : **NA**  
f) Quantity : **5 Nos.**  
g) Mode of Packing : **Packed in bag**  
h) Date of Receipt : **09.10.2024**  
i) Date of Starting : **09.10.2024**  
j) Date of Completion : **14.10.2024**  
k) Sealed or not : **NA**  
l) Any other information : **NA**

**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

सिपेट : पेट्रोकेमिकल्स तकनीकी  
संस्थान ( आई.पी.टी. )

( पूर्व में केंद्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान )

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सिपेट CIPET



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प्लास्टिक परीक्षण केंद्र / PLASTIC TESTING CENTRE

EVA Encapsulant Sheet

Test Report No.: 3064

Dated : 14.10.2024

PART C  
TEST RESULTS

Sr. No.	Test	Test Method	Unit	Results Obtained
1	Water Vapour Transmission Rate (WVTR) at 38°C temp., 90% RH	ASTM F 1249	gr/m <sup>2</sup> /24 hrs	32.68

Note : i) Statement of Conformity & Decision Rule (if any) : NA

ii) Opinion & Interpretation : NA

PART D

REMARKS : Nil

NOTE

- 1 The results related only to the items tested
- 2 The report shall not be reproduced in full/part without written approval of the laboratory
- 3 This Test Report/Certificate is issued only for the samples submitted to CIPET.
- 4 The results stated above related only to the items tested.
- 5 The quality of the subsequent production lot has to be ensured by the purchaser.

Authorised Signatory

भरत के. एल / BHARATH K. L.  
तकनीकी अधिकारी / TECH. OFFICER

Authorised Signatory

2 of 2  
कीर्ति त्रिवेदी / KIRTI TRIVEDI  
वरि. तक. अधिकारी / SR. TECH. OFFICER