

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

(पूर्व में केंद्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)
रसायन एवं पेट्रो-रसायन विभाग
रसायन एवं उर्वरक मंत्रालय, भारत सरकार
प्लॉट नं. 630, फेज 4, जी.आई.डी.सी., वटवा, अहमदाबाद - 382445.
दूरभाष : (079) 40103900-902, फैक्स : (079)-40083905
ईमेल : ahmedabad@cipet.gov.in
वेबसाईट : www.cipet.gov.in
मुख्यालय : सिपेट, गिण्डी, चेन्नै - 600 032



सिपेट CIPET



CIPET : INSTITUTE OF PETROCHEMICALS
TECHNOLOGY (IPT)

(Formerly Central Institute of Plastics Engineering & Technology)
Department of Chemicals & Petrochemicals
Ministry of Chemicals & Fertilizers, Govt. of India
Plot No. 630, Phase-IV, G.I.D.C., Vatva, Ahmedabad-382 445.
Tele.: (079) 40103900-902, Fax : (079) 40083905
E-mail: ahmedabad@cipet.gov.in
Web. : www.cipet.gov.in
Head Office : CIPET, Guindy, Chennai - 600 032

प्लास्टिक परीक्षण केंद्र / PLASTIC TESTING CENTRE

31811

श्रृंखला : ई / Series : E

परीक्षण रिपोर्ट / TEST REPORT

क्र.सं / S.L. No.

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

रिपोर्ट सं / Test Report No : **3679**

दिनांक / Dated : 28.01.2026

संदर्भ / Your Ref. No. : Letter

मानक के अनुसार टेस्ट रिपोर्ट

As per part C

दिनांक / Dated : 14.11.2025

Test Report as per Standard :

PART A

PARTICULARS OF SAMPLE SUBMITTED

- a) Name of Sample (as stated by party) : **POE Encapsulant Sheet**
b) Grade / variety / type / size / class : **Material type/Grade : POE-T12F**
c) Declared value, if any : **NA**
d) Code No. : **NA**
e) Batch No. and Date of Manufacture : **290925POET12FL145, DOM : 29.09.2025**
f) Quantity : **12 Nos.**
g) Mode of Packing : **Packed in bag**
h) Date of Receipt : **24.11.2025**
i) Date of Starting : **26.12.2025**
j) Date of Completion : **27.01.2026**
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**

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प्लास्टिक परीक्षण केंद्र / PLASTIC TESTING CENTRE

Issued to :

Terasol Energy Private Limited
Plot No. 113, GIDC Manjusr,
Taluka : Savli, Vadodara - 391 775 Gujarat

Test Report No.: 3679
Dated : 28.01.2026

PART C
TEST RESULTS

Sr. No.	Test	Test Method	Unit	Results Obtained
Sample : POE Encapsulant Sheet				
1	Water Absorption	ASTM D 570	%	0.04
2	Volume Resistivity	ASTM D 257	Ohm.cm	4.7×10^{17}
3	Comparative Tracking Index	---	----	*
4	Dielectric Strength	ASTM D 149	Kv/mm	34.18
5	Break Down Voltage	ASTM D 149	KV	18.8
6	Tensile Strength	ASTM D 638	MPa	18.38
	Elongation at Break		%	820
7	Water Vapour Transmission Rate (WVTR) at 38°C temp., 90% RH	ASTM F 1249	gr/m ² /24 hrs	4.451

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

PART D

- REMARKS : *Test is not possible because 0.5mm thickness.
- 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