

सिपेट : स्कूल फार एडवांस्ड
रिसर्च इन पेट्रोकेमिकल्स (एस. ए. आर. पी)
एडवांस्ड पॉलीमर डिसेन रिसर्च & डेवेलपमेन्ट
रिसर्च लॉबोरेटोरी, (ए. पी. डी. डी. आर. एल)

रसायन एवं पेट्रोरसायन विभाग

रसायन एवं उर्वरक मंत्रालय, भारत सरकार

प्लॉट नंबर : ७ पि, हाई टेक रक्ष और एयरोस्पेस पार्क

(आईटी सेक्टर), जलाहोवली, बेंगलुरु - 562149

ई-मेल : apddrl@cipet.gov.in / apddrlbengaluru@gmail.com

मुख्यालय : सिपेट, गिंडी, चेन्नै- 600032



CIPET सिपेट
probe-perfor m-practce-Plastics



CIPET : SCHOOL FOR ADVANCED
RESEARCH IN PETROCHEMICALS (SARP)-
ADVANCED POLYMER DESIGN & DEVELOPMENT
RESEARCH LABORATORY (APDDRL)

Dept. of Chemicals & Petrochemicals,

Ministry of Chemicals & Fertilizers, Govt. of India

Plot NO. 7P. Hi Tech Defence and Aerospace Park

(IT Sector), Jala Hobli, Bengaluru - 562149

E-mail : apddrl@cipet.gov.in / apddrlbengaluru@gmail.com

Head Office : CIPET, Guindy, Chennai - 600032

CIPET: SARP-APDDRL/BLR/Testing/2021-22/104

Dated: 10.11.2021

To

M/s. ARC Insulation and Insulators Pvt. Ltd.,

Village – Ramdevpur, P.O. – Bawali,

P.S.- Bishnupur, 24 Pgs. (S) – 743384

West Bengal

Dear Sir,

Sub.: Test Report – reg.

Ref.: Letter Ref. No. CORR/21-22/040 dtd. 25.09.2021

We are enclosing herewith Test Report No. 21140 dtd. 10.11.2021 pertaining to testing of your submitted sample.

Customer Feedback form is enclosed herewith, which you are requested to fill-up and send us back.

Thanking you,

With regards,


10/11/2021
Authorized Signatory

Encl: As above

केन्द्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बद्दी, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, चन्दपुर, चेन्नै, देहरादून, गुरुग्राम, गुवाहाटी, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्चि, कोरबा, लखनऊ, मदुरै, मुर्धल, मैसूरु, रायपुर, राँची, बलसाड एवं विजयवाडा.

Centres : Ahmedabad, Amritsar, Aurangabad, Agartala, Baddi, Balasore, Bengaluru, Bhopal, Bhubaneswar, Chandrapur, Chennai, Dehradun, Gurugam, Guwahati, Gwalior, Hyderabad, Hajipur, Haldia, Imphal, Jaipur, Kochi, Korba, Lucknow, Madurai, Murthal, Mysuru, Raipur, Ranchi, Valsad & Vijayawada.

सिपेट : स्कूल फार एडवांस्ड
रिसर्च इन पेट्रोकेमिकल्स (एस. ए. आर. पी)
एडवांस्ड पॉलीमर डिज़ाइन रिसर्च & डेवेलपमेन्ट
रिसर्च लॉबोरेटोरी, (ए. पी. डी. डी. आर. एल)

रसायन एवं पेट्रो रसायन विभाग

रसायन एवं उर्वरक मंत्रालय, भारत सरकार

प्लॉट नंबर : ७ पि, हाई टेक डिफेंस एंड एरोस्पेस पार्क

(आईटी सेक्टर), जलाहोब्ली, बंगलुरु - ५६२१४९

ई-मेल : apddrl@cipet.gov.in / apddrlbengaluru@gmail.com

मुख्यालय : सिपेट, गिंडी, चेन्नै - ६०००३२



CIPET सिपेट
probe-perfor m-practice-Plastics



CIPET : SCHOOL FOR ADVANCED
RESEARCH IN PETROCHEMICALS (SARP)-
ADVANCED POLYMER DESIGN & DEVELOPMENT
RESEARCH LABORATORY (APDDRL)

Dept. of Chemicals & Petrochemicals,
Ministry of Chemicals & Fertilizers, Govt. of India

Plot NO. 7P. Hi Tech Defence and Aerospace Park

(IT Sector), Jala Hobli, Bengaluru - 562149

E-mail : apddrl@cipet.gov.in / apddrlbengaluru@gmail.com

Head Office : CIPET, Guindy, Chennai - 600032

TEST REPORT

Page 1 of 2

TC-9321

Issued to :

M/s. ARC Insulation and Insulators Pvt. Ltd.,

Village – Ramdevpur, P.O. – Bawali,

P.S.- Bishnupur, 24 Pgs. (S) – 743384

West Bengal

ULR – TC 932121000000085F

Test Report No : 21140

Date : 10.11.2021

Ref.: Letter Ref. No. CORR/21-22/040 dtd. 25.09.2021

PART A: PARTICULARS OF SAMPLE SUBMITTED

Nature of Sample	:	“FRP Gratings of size 367 X 1290 mm” as received from the party.
Grade / Variety / type / Size / Class etc.	:	“Sample Description – Length- 1290mm, Width – 367mm, Height- 25mm, Mesh Size – 38 X 38mm, Thickness – 7mm” as mentioned in the letter.
Brand name, if any	:	----
Declared values, if any	:	----
Code No.	:	----
Batch No. and date of manufacture	:	----
Quantity	:	3nos.
Mode of Packing	:	----
Date of receipt of sample	:	05.10.2021
Date (s) of Performance of test	:	01.11.2021 – 10.11.2021
Sealed or not	:	Unsealed
Any other information	:	“Chemical Composition – FRP with Polyester Resin & Yellow Colour” as mentioned in the letter.

PART B: SUPPLEMENTARY INFORMATION

a) Reference to sampling procedure	:	Supplied by the party
b) Supporting documents for the measurements taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test report, if any (to be attached)	:	Nil
c) Deviation from the test methods as prescribed in relevant IS / Work instructions, if any	:	Nil

Sasmita
10/11/2021

केन्द्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बद्दी, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, चन्द्रपुर, चेन्नै, देहरादून, गुरुग्राम, गुवाहाटी, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्चि, कोरबा, लखनऊ, मदुरै, मुखल, मैसूरु, रायपुर, राँची, बलसाड एवं विजयवाडा.

Centres : Ahmedabad, Amritsar, Aurangabad, Agartala, Baddi, Balasore, Bengaluru, Bhopal, Bhubaneswar, Chandrapur, Chennai, Dehradun, Gurugam, Guwahati, Gwalior, Hyderabad, Hajipur, Haldia, Imphal, Jaipur, Kochi, Korba, Lucknow, Madurai, Murthal, Mysuru, Raipur, Ranchi, Valsad & Vijayawada.

सिपेट : स्कूल फार एडवांस्ड
रिसर्च इन पेट्रोकेमिकल्स (एस. ए. आर. पी)
एडवांस्ड पॉलीमर डिसेन रिसर्च & डेवेलपमेन्ट
रिसर्च लॉबोरेटोरी, (ए. पी. डी. डी. आर. एल)

रसायन एवं पेट्रोसायन विभाग

रसायन एवं उर्वरक मंत्रालय, भारत सरकार

प्लॉट नंबर : ७ पि, हाई टेक रक्षा और एयरोस्पेस पार्क
(आईटी सेक्टर), जलाहोबली, बेंगलुरु - 562149

ई-मेल : apddrl@cipet.gov.in / apddrlbengaluru@gmail.com

मुख्यालय : सिपेट, मीडि, चिन्ने - 600032



TC-9321



CIPET सिपेट
probe-perfor m-practice-Plastics



एक कदम स्वच्छता की ओर



CIPET : SCHOOL FOR ADVANCED
RESEARCH IN PETROCHEMICALS (SARP)-
ADVANCED POLYMER DESIGN & DEVELOPMENT
RESEARCH LABORATORY (APDDRL)

Dept. of Chemicals & Petrochemicals,
Ministry of Chemicals & Fertilizers, Govt. of India

Plot NO. 7P. Hi Tech Defence and Aerospace Park

(IT Sector), Jala Hobli, Bengaluru - 562149

E-mail : apddrl@cipet.gov.in / apddrlbengaluru@gmail.com

Head Office : CIPET, Guindy, Chennai - 600032

Page 2 of 2

ULR – TC 93212100000085F

Test Report No : 21140

Date : 10.11.2021

TEST REPORT

PART C : TEST RESULTS

Sl. No	Name of the test	Test Method	Unit	Results Obtained
1	Before UV Weathering			
1.1	Tensile Strength	ASTM D 638	MPa	118.8
1.2	Flexural Strength	ASTM D 790	MPa	403.8
	UV Resistance Test as per ASTM G 154- Table x2.1, Cycle- 1:- Resistance to UV weathering for 200hrs @ UV lamp UVA-340, Typical irradiance at 340nm is 0.89W/m ² /nm with 8hrs, UV at 60+3°C Black Panel Temperature and 4hrs, Condensation at 50+3°C Black Panel Temperature			
2	After UV Weathering			
2.1	Tensile Strength	ASTM D 638	MPa	88.4
2.2	Flexural Strength	ASTM D 790	MPa	383.5

PART D: REMARKS –

- Statement of conformity: NA
- Opinion & Interpretation: NA

NB:

- The results stated above related only to the items tested.
- This Test Report shall not be reproduced except in full without the written approval from CIPET:SARP-APDDRL, Bengaluru.
- This Test report is intended for your guidance and is not valid for legal purposes or for advertisement.
- Any anomaly/discrepancy in this report should be brought to the notice of CIPET within 30 days from the date of issue.
- Tested Sample will be disposed-off after 90 days from the date of test.
- Details of test subcontracted: Nil

-----End of Report-----

Reviewed By
Sasmita Mishra
Technical Officer (Testing)

Authorized By
Dr. Lakshmi Unnikrishnan
Scientist

केन्द्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बदी, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, चन्द्रपुर, चेन्नै, देहरादून, गुरुग्राम, गुवाहाटी, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्चि, कोरबा, लखनऊ, मदुरै, मुर्धल, मैसूरु, रायपुर, राँची, बलसाड एवं विजयवाडा.

Centres : Ahmedabad, Amritsar, Aurangabad, Agartala, Baddi, Balasore, Bengaluru, Bhopal, Bhubaneswar, Chandrapur, Chennai, Dehradun, Gurugam, Guwahati, Gwalior, Hyderabad, Hajipur, Haldia, Imphal, Jaipur, Kochi, Korba, Lucknow, Madurai, Murthal, Mysuru, Raipur, Ranchi, Valsad & Vijayawada.