



Cert. No. TC-5097

# COMPOSITE TESTING LABORATORY

Centre of Excellence - Composites

(under Technology Mission on Technical Textiles, Ministry, Government of India)

**AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION**

P.O. AMBAWADI VISTAR, AHMEDABAD-380 015.

Phone : (079) 26307921-7922-7923-5132 (Extn. No. : 382) Fax : (079) 26304677

E-mail : composites\_testing@atira.in Website : www.atira.in

अहमदाबाद वस्त्र उद्योग अनुसंधान संस्थान

पी. ओ. आंबावाडी विस्तार, अहमदाबाद-380 015. भारत



## TEST REPORT

Format No.: COMP/19/01/01

|  |   |
|--|---|
| Test Report No: COMP/CSR-5482-01/21-22 | Date:10/01/2022   |
| Lab Sample code:                       | CSR 5482  |
| Name and Address of customer:          | <b>ARC Insulation &amp; Insulators Pvt. Ltd</b><br>Vill: Ramdevpur, P.O: Bawali, Dist: South 24 Parganas,<br>PIN: 743384, West Bengal, India. |
| Sample forwarding Letter No. and Date: | Date: 24/12/2021  |
| Date of receipt of sample:             | 25/12/2021  |
| <b>Sample description</b>              | <b>ARC Make FRP/GRP Structural Profiles</b>   |
| No. Of Sample                          | 01  |
| Date of performance of test            | 01/01/2022  |

### Test Result:

| Sl. No. | Properties            | Standard                | Unit  | Obtained Values |
|---------|-----------------------|-------------------------|-------|-----------------|
| 1       | Tensile Strength      | ASTM D638               | MPa   | 307.72          |
| 2       | Modulus of Elasticity | ASTM D638               | GPa   | 33.83           |
| 3       | Flexural Strength     | ASTM D790               | MPa   | 379.47          |
| 4       | Flexural Modulus      | ASTM D790               | GPa   | 21.61           |
| 5       | Izod Impact           | ASTM D256               | KJ/m2 | 163             |
| 6       | Compressive Strength  | ASTM D695               | MPa   | 153.21          |
| 7       | Compressive Modulus   | ASTM D695               | GPa   | 28.37           |
| 8       | Barcol Hardness       | ASTM D2583              | BHU   | 57              |
| 9       | FR Flammability       | IS 6746/ASTMD635        |       | Low             |
| 10      | Oxygen Index          | IS 13360-6-19/ASTMD2863 | %     | 27              |

  
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## TEST REPORT

Format No.: COMP/19/01/00

|  |   |
|--|---|
| Test Report No: COMP/CSR-5482-02-21-22 | Date:10/01/2022   |
| Lab Sample code:                       | CSR 5482  |
| Name and Address of customer:          | <b>ARC Insulation &amp; Insulators Pvt. Ltd</b><br>Vill: Ramdevpur, P.O: Bawali, Dist: South 24 Parganas,<br>PIN: 743384, West Bengal, India. |
| Sample forwarding Letter No. and Date: | Date: 24/12/2021  |
| Date of receipt of sample:             | 25/12/2021  |
| <b>Sample description</b>              | <b>ARC Make FRP/GRP Structural Profiles</b>   |
| No. Of Sample                          | 01  |
| Date of performance of test            | 01/01/2022  |

### Test Result:

| Sl. No. | Properties                                     | Standard   | Unit      | Obtained Values |
|---------|--|------------|-----------|-----------------|
| 01      | Di electrical Strength Axial                   | ASTM D149  | Kv/ 25 mm | 32              |
| 02      | Di electrical Strength Radial                  | ASTM D149  | Kv/ 25 mm | 14              |
| 03      | Arc Resistance                                 | ASTM D 495 | sec       | 150             |
| 04      | Comperative Tracking Index/Tracking Resistance |            | sec       | 605             |
| 05      | Bearing Strength                               | ASTM D 953 | MPa       | 104.93          |
| 06      | Water Absorption (For 24 hours)                | ASTM D570  | %         | 0.47 %          |
| 07      | Glass Content                                  | ASTM D2584 | %         | 67.06           |

  
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