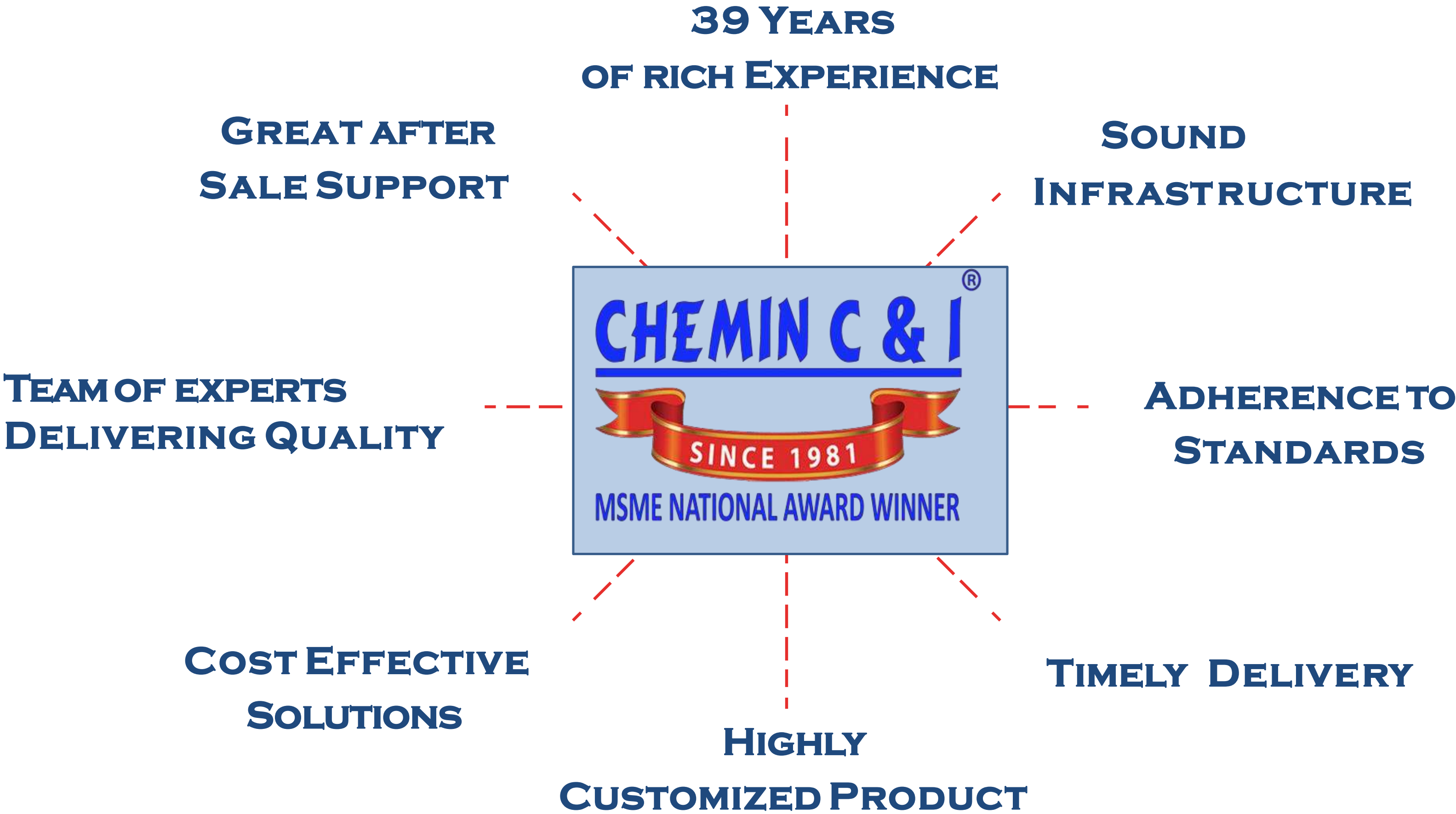


CHEMIN FRP DIVISION





39 Years of glorious service to the Nation through “Instrumentation”

Our FRP Junction Box Enclosures are used for outdoor application with weatherproof and antistatic properties, finding their major application in industries. These enclosures are manufactured as per have an IP rating standard. They are certified to match specifications in the GCC region, United Kingdom and Europe.

We work with a large number of customers from a broad scope of industries. We have developed significant knowledge and understanding of the specific requirements and conformities within wide and varied market sectors.

FRP type junction box offers an excellent dielectric properties as its material is made from sheet moulding compound.

FRP junction box supplier provides commonly in two forms, the plain format together with the provision of attaching external terminal in a separate form and the one with terminals that is built in. This is a great way to offer consumers a sense of flexibility based on the use they need.



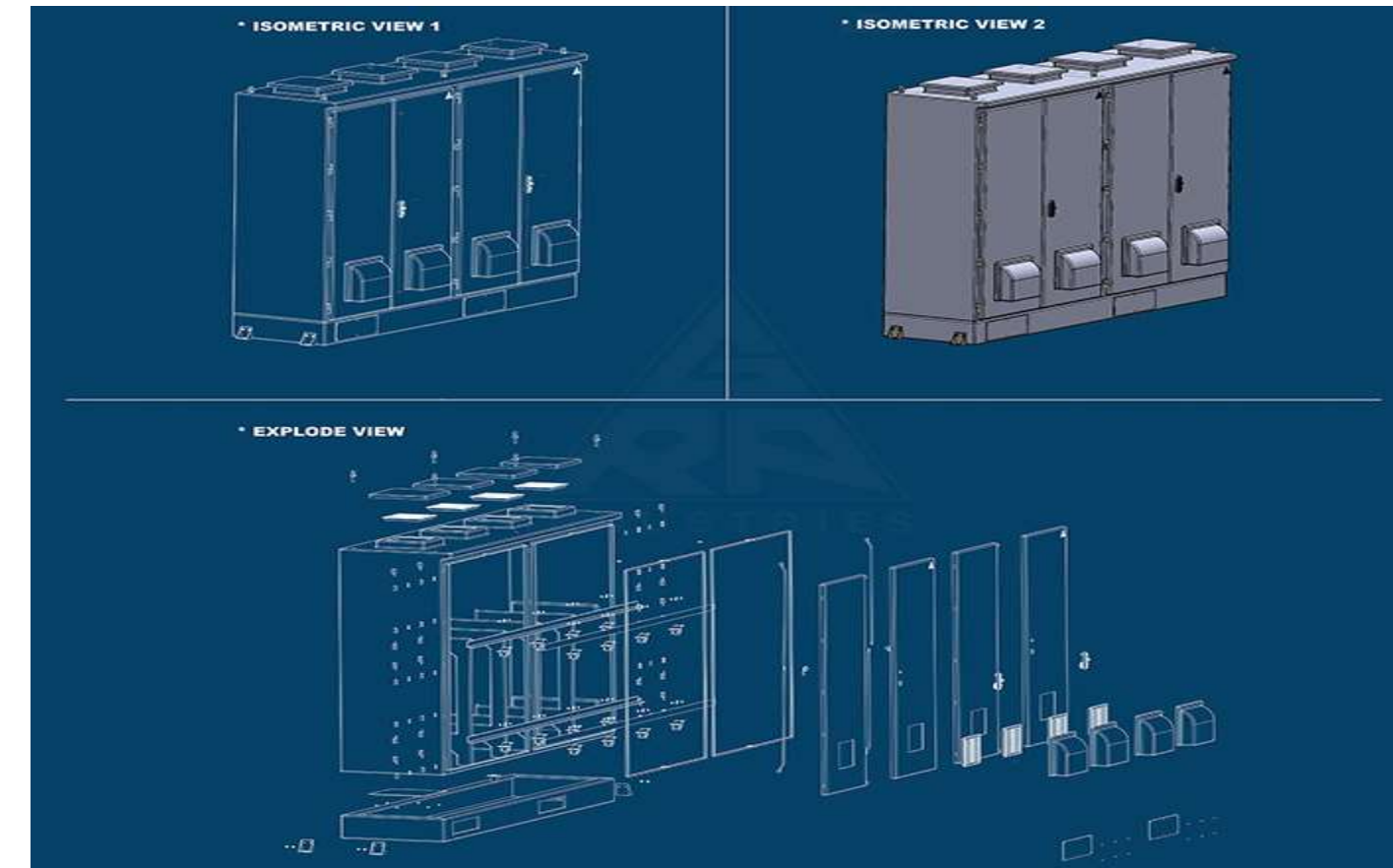
1) RAW MATERIALS



Our raw material inspections are a vital step to ensuring that our suppliers are meeting our specifications and giving us insight into:

- Identity of the raw material
- Handling and Safety information
- Suitability for our production process

2) DESIGN



As a manufacturer of customized industrial products, our Design team plays a critical role.

- Modelling and Design shared with and approved by customer at pre-production stage
- Analysis of stresses, insulation and conductivity by advanced software
- Capability to design and manufacture new product for a customized solution

3) IN-PROCESS INSPECTION



In-process inspection in manufacturing is measuring, examining, testing, or gauging one or more characteristics of a product or process and comparing the results with specified requirements to determine whether the requirements are met for each characteristic.

- Measurement of glass fibre to resin ratio
- De-molding inspection with weight analysis
- Protection evaluation with gel coat and laminate thickness measurement
- Continual examination against design drawings

4) FINAL INSPECTION



- IP rating certified with water testing as per standard
- Final cleaning and visual appearance inspection
- Final hardware and accessories verified against design schematics
- Verification of locking arrangement with sealing analysis
- Multitude of custom designed packaging materials to provide protection on all edges, locks, base etc.
- Genuine branding and labelling on packaging to provide handling instructions, product information, material characteristics, final inspection certification and company information about the manufacturer for custom clearances.

Sl. No.	Description	Item Code
1	FRP Junction Box 1000mm (H) x 830mm (W) x 350mm (D) 4mm Thick	CCI/FRP/102
2	FRP Junction Box 850mm (H) x 640mm (W) x 300mm (D) 4mm Thick	CCI/FRP/103
3	FRP Junction Box 750mm (H) x 540mm (W) x 300mm (D) 4mm Thick	CCI/FRP/104
4	FRP Junction Box 500mm (H) x 500mm (W) x 210mm (D) 4mm Thick	CCI/FRP/105
5	FRP Junction Box 300mm (H) x 380mm (W) x 210mm (D) 4mm Thick	CCI/FRP/106

FEATURES

- **FRP junction box weight around 1/3 of the weight of a steel box. It is more corrosion resistance specially in moist environment.**
- **Lightweight.**
- **Corrosion resistance.**
- **High load bearing capacity.**
- **Available in different sizes, shapes, and designs.**
- **Provides the assurance of complete protection of its components kept inside it and offers safety against dirt, dust, and liquids.**
- **Created from raw materials which provides optimum durability for a long-lasting trouble-free service.**

TEST FOR MECHANICAL IMPACT

CPRI

TEST REPORT



Central Power Research Institute

(A Govt. of India Society)
P.B.No. 8066, Sadashivanagar Post Office,
Sir C.V. Raman Road,
Bengaluru - 560 080 (INDIA)

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)

TEST REPORT

Test Report Number : CPRI/BLR/SCL/19T0617 Date: 30 July 2019

Name & Address of the Customer : M/s. Chemin Controls & Instrumentation Pvt. Ltd.,
C-102 to 106, 110 to 114, 17th Cross,
PIPDI Industrial Estate, Mettupalayam,
Puducherry - 605 009, India.

Name & Address of the Manufacturer : M/s. Chemin Controls & Instrumentation Pvt. Ltd.,
C-102 to 106, 110 to 114, 17th Cross,
PIPDI Industrial Estate, Mettupalayam,
Puducherry - 605 009, India.

Particulars of sample tested : Enclosure of Power Junction Box
Condition of the sample on Receipt : Good
Type : Outdoor
Description of the test sample : FRP Enclosure of Power Junction Box
Serial Number : ---
Number of samples tested : One
Date (s) of test (s) : 23 July, 2019
CPRI sample code no(s) : SCL19S0619

Particulars of tests conducted : Test to verify the protection against mechanical impacts

Test in accordance with : Clause 6 of IEC 62262: 2002
Standard / specification : Not applicable
Sampling plan : Nil
Customer's requirement : Nil
Deviations if any : Nil

Name of the witnessing persons : Mr. E. Karthikkumar, Jr. Commercial Officer
Customer's representative : None
Other than customer's representative : None

Test subcontracted with : None
address of the laboratory : None

Documents constituting this report (in words) : Six
Number of sheets : Nil
Number of oscillograms : Nil
Number of graphs : Nil
Number of photos : Nil
Number of test circuit diagrams : Nil
Number of drawings : One

(S. Shenbagarajan)
Test Engineer

(Swaraj Kumar Das)
Head of Division
Approved by

ULR-TC5452100SCLT0617F
Discipline: Electrical Testing
Group: Switchgear & Protective Equipment

SHORT CIRCUIT LABORATORY
P.B.NO 8066, SADASHIVANAGAR POST OFFICE
SIR C.V. RAMAN ROAD, BENGALURU - 560 080 (INDIA)
Phone : +91 (0) 80 - 22072353 Fax : +91 (0) 80 - 23301213

Sheet 1 of 6

TEST FOR FLAMABILITY

Cables & Diagnostics Division
Fax : 080-22072333
E-Mail : meena@cpri.in

By Speed Post
Dt.07/05/2018

M/s. Chemin Controls And Instrumentation Pvt. Ltd.,
C-102-106, 110-114, 17th Cross,
PIPDI Industrial Estate, Mettupalayam,
Puducherry - 605 009, India.

Sub : Flammability test on FRP Sheet Material
Ref : CC&I/CPRI/WIE-1008/SN/01 dt. 26.04.2018
Kind Attn : Mr. S.Natarajan, Sr.GM-Operations

Dear sir

This has reference to your Letter No. CC&I/CPRI/WIE-1008/SN/01 dt. 26.04.2018 regarding Flammability test on FRP Sheet Material.

As requested the tests have been completed and the test report No. CPRI/BLR/CABMISC1819T0009 dated. 07.05.2018 is enclosed.

In order to prevent tampering of test report, CPRI has introduced hologram on the first page of the test report with effect from 01.10.2007.

Any discrepancy in the test report may please be informed within forty five days from the date of receipt of the test report.

The receipt of the test report may please be acknowledged.

Thanking you and assuring you our services at all times,

Yours faithfully,

(K.P.Meena)
Joint Director

TEST REPORT



Central Power Research Institute

(A Govt. of India Society)
P.B. No.8066, Sadashivanagar Post Office
Prof. Sir.C.V. Raman Road,
Bangalore - 560 080(INDIA)

CERTIFICATION FOR UV RESISTANCE

Please share your feedback

SIGMA

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Email : info@sigmatest.org
Web : www.sigmatest.org

TESTING OF FOOD | WATER | CHEMICALS | PETROLEUM PRODUCTS | BUILDING MATERIAL | ENVIRONMENT

TEST CERTIFICATE

(This certificate is not valid without a hologram)

Sample : FRP Power Junction Box
Sample Description: FRP Power Junction Box

Ref. No.: Nil
Issued To: Chemin Controls And Instrumentation Private Limited
C-102-106, 110-114, 17th Cross,
PIPDIIC Industrial Estate, Mettupalayam,
Puducherry-605009

Report No.:21001810
Report Issue Date: 11/10/2019
Job Code STRC/21001810
Sample Received On: 20/09/2019
Date of Testing: 20/09/2019-11/10/2019
Sample Qty.: 2 pcs
Page 1 of 3

Sample : FRP Power Junction Box

Job Code No. : STRC/21001810

Work Order No.: 77-66-7/Sep/2019

Protocol : ISO: 4982-2-2006

Sample Received Date : 20/09/2019

Date of Completion : 11/10/2019

Report Issue Date : 11/10/2019

STRC/78/71C/200

Santram Rajput
Technical Manager

WWW.SIGMAEST.ORG

(1) The Test results listed refer only to tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.(2) Total liability of our Lab is limited to the invoiced amount. (3) Sample(s) are retained for 7 days (in case of perishable items) and 30 days for non perishable samples or unless otherwise specified. This Test Report is not to be reproduced wholly or in part and cannot be used as an evidence in the court of Law and should not be used in any advertising media without our special permission in writing. (5) The Test Report refer to the sample submitted to us and not drawn by Sigma Test & Research Centre unless mentioned otherwise.

AN ISO 9001:2015 & 14001:2015 ACCREDITED LABORATORY

Please share your feedback

SIGMA

TEST & RESEARCH CENTRE

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Web : www.sigmatest.org

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TEST CERTIFICATE

(This certificate is not valid without a hologram)

Report No.: 21001810
Report Issue Date: 11/10/2019
Page: 2 of 3

Test : UV Resistance Test

Protocol : ISO: 4892-2-2006

UV Source : Xenon Arc Light

Date of starting : 20/09/2019

Date of Completion : 11/10/2019

Exposure Duration : 500 hours

Test conditions :
Irradiance : 340 Nm, 0.5±0.03 W/m²
Relative Humidity : 50%
Black standard temp. : 65 ± 3°C

EVALUATION METHOD:
Examine the surface of the test specimen with the naked eye corrected if necessary, at a distance of approximately 50 cm for any change in colour assessing the contrast between the exposure and unexposure portions of the test specimen in terms of a grey scale according to EN20105-A02.
The light fastness of the test specimen is expressed in terms of the contrast being greater than, equal to or less than grade4 of the grey scale.

OBSERVATIONS:

Check item	Test Result
(Colour Change) Grey scale	Greater than 4
Colour difference (ΔE)	0.61
Gloss	Before testing 5.7 After testing 5.2
Colour coordinates	L Before testing 73.76 After testing 73.41
	a Before testing -1.47 After testing -1.59
	b Before testing 4.14 After testing 4.62
	Post Test Observation

Note : L*=lightness, a* & b*= colour attributes.

STRC/78/71C/200

Santram Rajput
Technical Manager

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AN ISO 9001:2015 & 14001:2015 ACCREDITED LABORATORY

CUSTOMER WE SERVED



39 Years of glorious service to the Nation through “Instrumentation”

HEAD OFFICE

CHEMIN CONTROLS & INSTRUMENTATION PVT. LTD.,
C-102 to 106, 110 to 114 17th CROSS,
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PUDUCHERRY - 605 009
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Phone: +(91)-(413)- 2271155 / 2277685 / 2277975

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(India & Overseas):**

Mr. Sridhar Sabesan

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**For more information visit our
website www.chem-in.com**

We work together, and win together

