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)



CPRI

TEST REPORT

Test Report Number

CPRIBLRCABMISC19T0006 Dated: 10.01.2019

Name & Address of the Customer

M/s. Macoplast Pipe Industries,

11, Site #1A, Kyalasanahalli Village,

Bangalore East Taluk, Bangalore - 560 077

Near Kothnur Police Station.

Name & Address of the Manufacturer

: M/s. Macoplast Pipe Industries,

11, Site #1A, Kyalasanahalli Village,

Bangalore East Taluk, Bangalore - 560 077

Near Kothnur Police Station.

Particulars of sample tested

Universal 25 mm Heavy FRLS UPVC Electrical

Conduit Pipe

Condition of the Sample on Receipt

New

Type

Description of test sample

Nil

Universal 25 mm Heavy FRLS UPVC Electrical

Conduit Pipe

Printing: UNIVERSAL ISI UPVC 25 mm HEAVY

Nil

One

Number of samples tested

Date(s) of Test(s)
CPRI sample code no

31.12.2018 to 04.01.2019 CDDMISC18S0060

Particulars of tests conducted

Smoke Density test

Test in accordance with standard/specification

ASTM-D-2843-2016

Sampling plan

Serial Number

Customer's requirement

Deviations if any

Not applicable

Nil

Nil

Name of the witnessing persons

Customer's representatives

None None

Other than Customer's representatives

None

Test subcontracted with address of the laboratory

Documents constituting this report (in words)

Number of Sheets

Number of oscillograms

Number of graphs

Number of photos

Number of Test Circuit Diagrams

Number of Drawings

Four Nil

Nil

IVII

Nil Nil

Nil

(R.ARUNJOTHI) TEST ENGINEER

(K.P.MEENA)

JOINT DIRECTOR
Approved By



Date: 10.01.20

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The FRLS UPVC Electrical Conduit Pipe is moulded into the required dimensions and the following test is carried out.

TEST RESULTS

SMOKE DENSITY TEST:

Test Method

: As per ASTM-D-2843-2016

No. of specimen tested

: Three

Sample Dimensions

: Length: 25.4 mm, Width: 25.4 mm,

Conditioning

: Samples were conditioned for 48 hours at 23 \pm 2°C & 50 \pm 5% RH

Time in		Absorbance in percent			
		Sample 1	Sample 2	Sample 3	Average
		(Thickness	(Thickness	(Thickness	Absorbance in
Mts.	Secs.	6.0 mm)	6.0mm)	6.0 mm)	percent
00	15	8.4	8.1	10.5	9.00
00	30	42.2	46.7	46.7	45.20
00	45	59.7	62.2	61.2	61.03
01	00	71.0	73.7	74.3	73.00
01	15	79.7	74.4	79.2	77.77
01	30	81.6	76.4	80.2	79.40
01	45	81.9	80.4	82.5	81.60
02	00	82.2	81.9	84.6	82.90
02	15	84.2	84.4	87.4	85.33
02	30	86.1	86.5	91.3	87.97
02	45	89.4	87.2	92.3	89.63
03	00	90.8	89.7	91.9	90.80
03	15	93.7	91.3	92.1	92.37
03	30	94.5	92.4	94.9	93.93
03	45	94.7	93.2	94.8	94.23
04	00	93.4	94.5	93.4	93.77

Maximum smoke density in Percent light Absorption

: 94.23 %

Area in percent under the light absorption

Time curve (Smoke density rating)

Observed

: 74.44 %

Observation of time taken for sample to burst into flame: 15 seconds

Obscurement of `EXIT' sign

: 'EXIT' sign was visible throughout the test

TEST ENGINEER

ULR-TC5452190CABT0006F

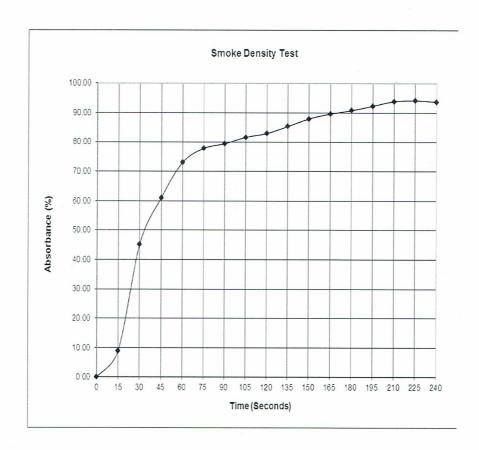


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TEST RESULTS



R. Long oth: (R.ARUNJOTHI) TEST ENGINEER



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NOTE

- a) The test results relate only to the item(s) tested.
- b) Publication or reproduction of this test report in any form other that by complete set of the whole report and in the language written is not permitted without the written consent of CPRI.
- c) Any Correction/erasure invalidates the test report.
- d) NABL has accredited this laboratory as per ISO/IEC 17025-2005 standard, vide certificate no. TC-5452 for the tests carried out.
- e) Any anomaly/discrepancy in this test report should be brought to the notice of CPRI within 45 days from the date of issue.

(R.ARUNJOTHI) TEST ENGINEER