

No.: 0131647

सन्द्रल इनस्टीट्यूट ऑफ प्लास्टिक्स इन्जीनियरिंग एण्ड टेक्नॉलाजी

(रसायन एवं पेट्रोरसायन विभाग रसायन एवं उर्वरक मँत्रालय, भारत सरकास) एच.सी.एल. पोस्ट, आई.डी.ए., फेस - ॥, चेरलापल्ली, हैदराबाद - ५०० ०५१.

CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY

(Department of Chemicals & Petrochemicals Ministry of Chemicals & Fertilizers, Govt of India)

HCL Post, IDA - Phase - II, Cherlapally, Hyderabad - 500 051. Phone: 27263750, 27263615, Fax: 91-40-27264051 E-mail: hyderabad@cipet.gov.in, Web:www.cipet.gov.in

Plastics Testing Centre

Test Certificate





Page 1 of 3 Date: 29.05.2018

Issued to: M/s. Tesla Electric & Engineering India Pvt. Ltd., #156, SVK Arcade, 4th Floor, 2nd Main Road, East of NGEF Layout, Kasturi Nagar,

Bangalore-560043

Ref: Your Ltr. Nil dated: 11.05.2018 & 14.05.2018

TEST REPORT AS PER: IS: 9537(Pt. 3)-1983 with latest Amdt. REPORT NO: 1808632/2

PART A: PARTICULARS OF SAMPLE SUBMITTED

a) Name of the Sample

Rigid Plain Conduits of Insulating material for electrical installation

b) Grade/Variety/Type/Size/Class

25 mm UNIVERSAL HMS,

Heavy (Plain ended)

c) Declared values, if any

Supplied at Work Site: APTIDCO Project

by M/s. Macoplast Pipe Industries, Bangalore

d) Code No.

Nil

e) Batch No. and Date of Manufacture :

Nil

f) Quantity

6 nos. x 3 mtr

g) Mode of Packing

HDPE Bag

h) Seal

Nil

i) Any other information

Samples received on 16.05.2018

i) Date of Initiation of Testing

16.05.2018

k) Date of Completion of Testing

28.05.2018

PART B: SUPPLEMENTARY INFORMATION

a) Reference to sampling Procedure

Nil

b) Supporting documents for the

Nil

measurement taken and result derived

c) Deviation from the test method as

'Nil

prescribed in relevant work instructions,

if any



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चेरलापल्ली, हैदराबाद - ५०० ०५१.

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TEST RESULTS

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PART - C

(As per IS: 9537-1983 (Pt.3) with latest Amnd.)

S.No	Clause	Test	Specified Requirement	Results
1.	5	CLASSIFICATION		
	5.1	Classification of Conduits	Shall be classified according to mechanical properties (1)Light, (2) Medium, (3) Heavy	Heavy
1.1	6	MARKING		
	6.1	a) Manu facturer's name or trade mark	-	Available
		b) Nominal size of the conduit	-	25 mm
	9	c) Country of Manufacturer		India
		d) Classification		Available
1.2	6.2	Durability of the marking	Marking shall be durable and legible	Confirmed
2.	7	DIMENSIONS		
2.1	7.1	Diameter: (mm)		
		Outside Diameter	25.0	24.93
2.2		Tolerance on Outside Diameter	-0.4	-0.07
2.1.1		Inside Dismeter (min) (mm)	20.6	21.0
2.1.2	7.1.1	Max, Min OD of the Conduits measured by Gauges	Fig.1 & Fig.2	Passed
2.1.3	73	Length of Conduit Pipe (mtr)	3.0 or 4.0 mtr	3.0
2.1.4	7.4	Uniformity of wall thickness (mm)	In no case shall the difference between the value measured and the average of twelve values obtained from three samples exceed 0.1+10% of average value.	0.11 Passed
3.	8.1	Construction	The inside and the outside surface of conduits shall be reasonably smooth and free from burrs, flash and similar defects; in addition, the edge over which the conductors or cable are likely to be drawn shall not damage the cable or conductor	Satisfactory



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TEST RESULTS

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PART-C

(As per IS: 9537-1983 (Pt.3) with latest Amnd)

Sample: PVC Conduit Pipe - 25 mm, Heavy

No	Clause	Test	Specified Requirement	Results Obtained
4.	9.2	Bending test	Shall show no cracks visible to normal or corrected vision without magnification.	Passed
5.	9.3	Compression test	a)The difference between the initial diameter and diameter of the flattened sample shall not exceed 25% of the initial diameter	9.93% Passed
			b) After removal of the force, the difference between initial diameter and the diameter of the flattened sample shall not exceed 10% of the initial diameter	Passed
6.	9.4	Im pact test	Shall be no sign of disintegration, neither shall there be any crack visible to the naked eye	Passed
7.	9.5	Collapse test	The minimum internal diameter shall be checked with appropriate gauge and it shall be possible to pass this gauge through the conduit, fixed to support.	Passed
8.	10.0	Resistance to Heat (mm)	Shall not exceed 2 mm	0.16
9.	11	Resistance to burning (sec)	Any flame shall have died out in less than 30 sec after removal of the burner	15 sec Passed
10.	12.1.1	Electrical Strength	No breakdown or flashover shall occur during the test	Passed
11.	12.1.2	Insulation Resistance (MΩ)	Shall not be less than 100 MΩ	118 Passed

PARTD: REMARKS

: 1. The results related only to item s/samples tested.

2. The report shall not be reproduced in full/p art without written approval of the laboratory.

AUTHORISED SIGNATORY