

TEST REPORT

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ULR No.:-	Nil	Discipline/ Group:	ELECTRICAL/EVIROMENTAL TEST FACILITY
Test Report No.	STC/TEST/N20230413003		Date of Issue: 25/04/2023

Name & Address of Customer:	DEE FIVE SHRINK INSULATIONS PVT. LTD. Plot No. 165, HSIIDC, Sector- 17, Bahadurgarh - 124507, Haryana		
Name & Address of Manufacturer (If required):	DEE FIVE SHRINK INSULATIONS PVT. LTD. Plot No. 165, HSIIDC, Sector- 17, Bahadurgarh - 124507, Haryana		
Customer Ref. & Date:	Nil	W.O. No.: N20230413003	
Date of Sample Receipt: 13/04/2023	Start of Test Date: 13/04/2023	End of Test Date: 15/04/2023	

PART A - PARTICULARS OF THE SAMPLE SUBMITTED



Sample description	PVC Heat Shrinkable Lay Flat Tubing
Grade/ variety/ type/ class/ size etc.	Insulation grade II
Declared values, if any	Nil
Code no., BIS seal and IO's sign. if any	Nil
Batch no., date of manufacture and Brand Name	DEE FIVE SHRINK INSULATIONS PVT. LTD. Plot No. 165, HSIIDC, Sector- 17, Bahadurgarh - 124507, Haryana
Model	--
Quantity	10 Nos.
Condition of the sample	OK
Reference specification (s)	IEC 60695-11-10:2013 (UL 94)
Environmental conditions	Temperature (25±10)°C & Relative Humidity(45-75)%

PART-B: SUPPLEMENTARY INFORMATION

1. If an Item is tested, acknowledging deviations from specified conditions as requested by customers, the results may be affected due to this deviation.
2. Details of the drawings, graphs, tables, sketches or photographs as referred in the test report, if any:

Notes:

1. This report is not to be reproduced except in full/partial without approval of the laboratory in writing.
2. This report refers only to the particular sample detailed above.
3. The results reported in this Test report are valid at the time of and under the stipulated conditions of measurement.

Tested by	Approved by
	
(Ankur Singh/Testing Engineer)	(Khushboo/Technical Manager)

Format No. - STCLAB/F/EL/06

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PART C- TEST RESULT

S. No	TEST WITH CLAUSE REFERENCE	SPECIFIED REQUIREMENT	RESULT	Remarks
1.	Test Method A- Horizontal burning test Cl. 8	Thickness of test specimen	0.35 mm	P
		Conditioned test specimen for 48 h in a humidity cabinet with 23±2°C and RH 50±10%	Temperature 23°C RH 50%	P
		HB Classification	See table 8	HB@0.35 mm
2.	Test Method A- Vertical burning test Cl. 9	Thickness of test specimen	0.35 mm	P
		Conditioned test specimen for 48 h in a humidity cabinet with 23±2°C and RH 50±10%	Temperature 23°C RH 50%	P
		Oven Conditioned test specimens for 24 h in a humidity cabinet with 125±2°C	Temperature 125°C	P
		Classification	See table 9	V-0@0.35mm



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Table 8

The flammability rating is calculated for a test specimen as a function of the burning rate and taking account of the material thickness.

Flammability rating			
Test criteria	HB	HB40	HB75
Burn with a flame after the ignition source removed	NO	NO	NO
Test specimen continue to burn with a flame after the ignition source removed	Flame front does not pass the 100 mm Mark	Flame front does not pass the 100 mm Mark	Flame front does not pass the 100 mm Mark
Flame front pass the 100 mm Mark then linear burning rate $V=(L/t) \times (60s/min)$ V= Linear Burning rate L= Damaged length t= time in second	≤ 40 mm/min for thickness $3.0mm < 13.0mm$ or ≤ 75 mm/min for thickness $< 3.0mm$	≤ 40 mm/min	≤ 40 mm/min

Burn with a flame after the ignition source removed	NO
Test specimen continue to burn with a flame after the ignition source removed	Flame front does not pass the 100 mm Mark
Flame front pass the 100 mm Mark then linear burning rate	≤ 75 mm/min for thickness $< 3.0mm$



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Table 9

The test evaluates both the burning and afterglow times and dripping of the burning test specimen.

Flammability rating

Test criteria	V-0	V-1	V-2
Individual test specimen after flame times (s) (t ₁ , t ₂) (after first and second flame applications)	≤10	≤30	≤30
Total burning time t _f (s) for any Conditioned set of five specimen	≤50	≤250	≤250
Individual test specimen after flame time plus afterglow times after the second flame application (t ₂ + t ₃) (s)	≤30	≤60	≤60
After and/or afterglow of any specimen burned to the holding clamp	No	No	No
Cotton indicator pad ignited by flaming particles or drops	No	No	Yes

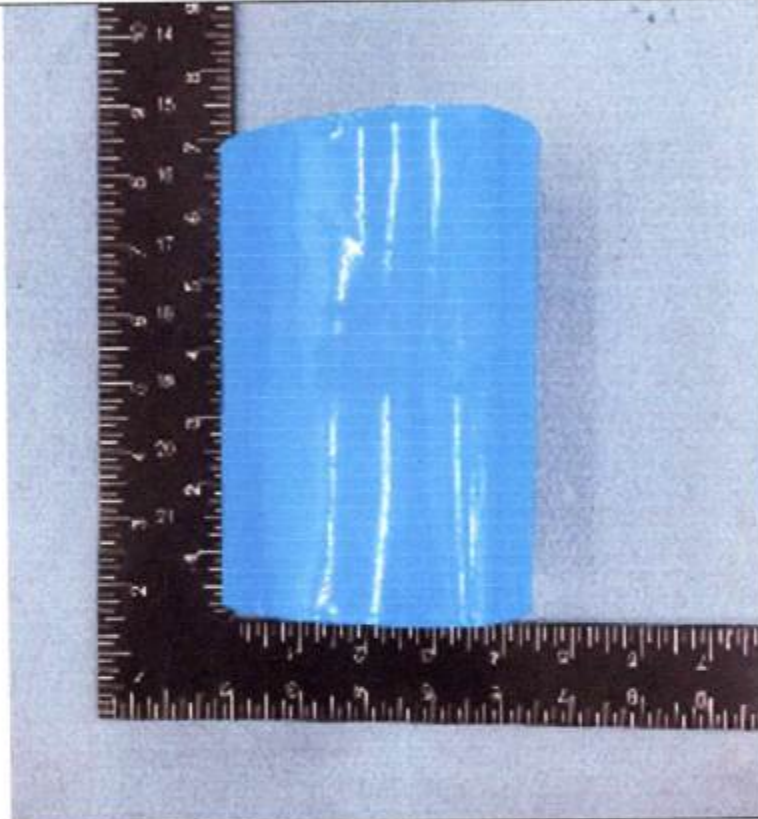
Observation

Individual test specimen after flame times (s) (after first and second flame applications)	6 seconds
Total burning time t _f (s) for any Conditioned set of five specimen	31 seconds
Individual test specimen after flame time plus afterglow times after the second flame application (t ₂ + t ₃) (s)	14 Seconds
After and/or afterglow of any specimen burned to the holding clamp	No burned
Cotton indicator pad ignited by flaming particles or drops	Cotton indicator pad not ignited

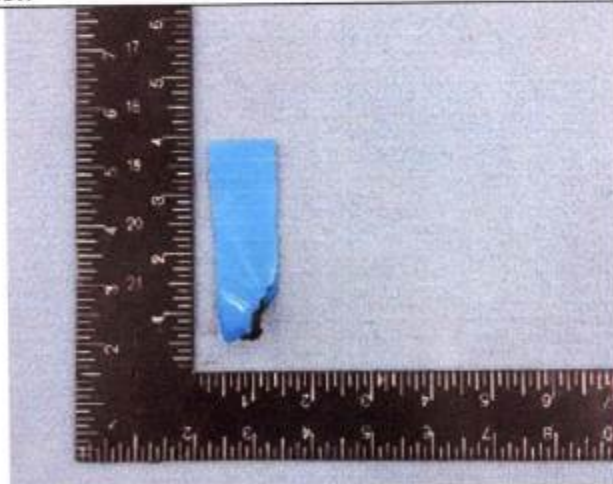


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Photograph of sample Before test:



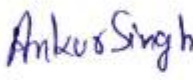

Photograph of sample After test:



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PART D:-

REMARKS: The PVC Heat Shrinkable Lay Flat Tubing material complies with horizontal test HB class material & Vertical test complies with V-0 material.

Tested by	Approved by
	
(Ankur Singh/Testing Engineer)	(Khushboo/Technical Manager)

***** END OF TEST REPORT *****