

TEST REPORT

No. : SHMR250902159601

Date : Sep 30, 2025

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CUSTOMER NAME: Hebei Chantai New Materials Technology Co., Ltd
ADDRESS: No.6,Chuangye Street,Niuzhai Village,Changzhuang Town,Weixian County,Xingtai City,Hebei Province,China

Sample Name : Fire Sleeve
Manufacturer : Hebei Chantai New Materials Technology Co., Ltd

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : SHP25-028349
Date of Receipt : Sep 17, 2025
Testing Start Date : Sep 17, 2025
Testing End Date : Sep 30, 2025
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services (Shanghai) Co., Ltd.

Sunny Tan

Sunny Tan
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	50W(20mm)Vertical Burning	UL 94-2023 Rev.2-2024 Section 8	Classification: V-1	/
2	Dielectric Breakdown Voltage	GB/T 1408.1-2016	20.80 kV	/

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.



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1. Test Item: 50W(20mm)Vertical Burning

Sample Description: A-Red specimens

Test Method: UL 94-2023 Rev.2-2024 Section 8

Test Condition:

Specimen: 124 mm × 12.92 mm × 3.551 mm

Test Result:

Sample A

Conditioning	As received : (23±2)° C, (50±5)%RH, 48h					Ageing: (70±2)° C, 168h→ Desiccator, (23±2)° C, 4h				
Specimen	1	2	3	4	5	1	2	3	4	5
Afterflame time after the first flame application (s), t ₁	7.8	4.0	2.2	3.5	3.8	0	5.3	1.8	3.4	4.9
Afterflame time after the second flame application (s), t ₂	0	18.4	16.2	13.8	0	0	0	0	0	0
Afterglow time after the second application (s), t ₃	0	0	0	0	0	0	0	0	0	0
Total afterflame time for any condition set (s), t ₁ +t ₂	69.7					15.4				
Afterflame time plus afterglow time after the second flame application (s), t ₂ +t ₃	0	18.4	16.2	13.8	0	0	0	0	0	0
Whether or not specimen burn up to the holding clamp	No	No	No	No	No	No	No	No	No	No
Whether or not the cotton was ignited by flaming particles or drops	No	No	No	No	No	No	No	No	No	No



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Classification: V-1 (See table 1)

Table 1

Criteria conditions	V-0	V-1	V-2
Afterflame time for each individual specimen t_1 and t_2	$\leq 10s$	$\leq 30s$	$\leq 30s$
Total afterflame time for any condition set (t_1 plus t_2 for the 5 specimens)	$\leq 50s$	$\leq 250s$	$\leq 250s$
Afterflame plus afterglow time for each individual specimen after the second flame application (t_2+t_3)	$\leq 30s$	$\leq 60s$	$\leq 60s$
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	Yes

Note: Test specimens were cut from the sample.



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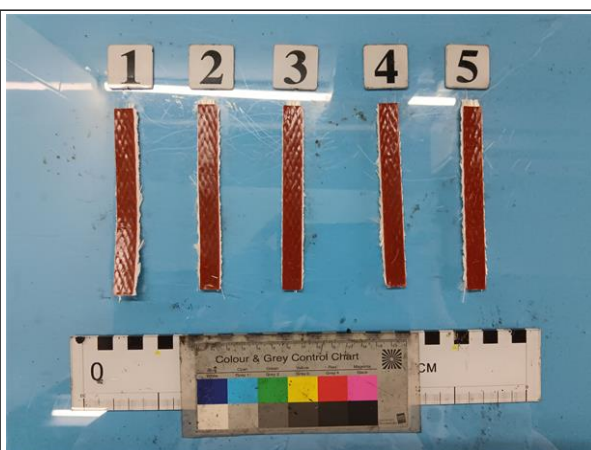
Date : Sep 30, 2025

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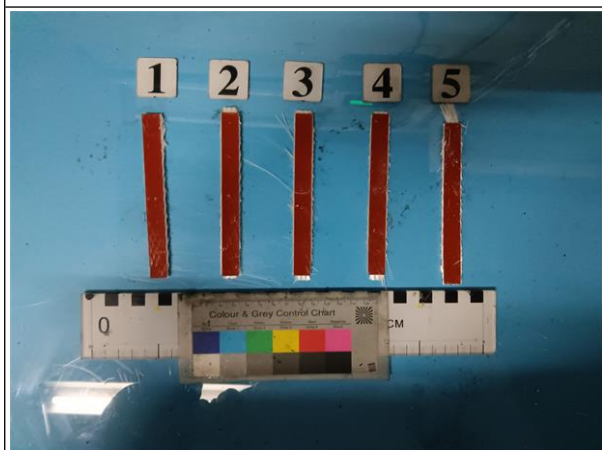
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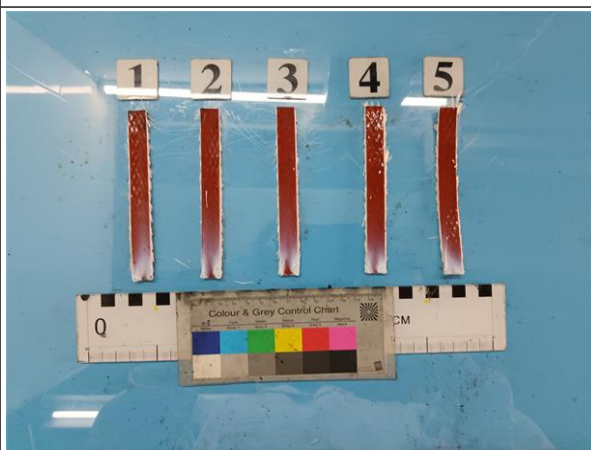
Original Sample-Sample A



Before Test-Sample A-After Aging



Before Test-Sample A-As Received



After Test-Sample A-As Received

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After Test-Sample A-After Aging

/

/

Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Oven	FED720	P-215	2025-04-25	2026-04-24
Horizon and vertical flame chamber	HVUL2	P-596	2025-04-27	2026-04-26



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2. Test Item: Dielectric Breakdown Voltage

Sample Description: A-Red specimens

Test Method: GB/T 1408.1-2016

Test Condition:

Precondition: (23±2) °C, (50±5) %RH, 24 h

Surround Medium: Transformer oil at (23±2) °C

Test Electrode: Equal electrodes (upper and lower electrodes Φ25 mm)

Voltage Type: AC 50 Hz

Mode of Increase of Voltage: Rapid-rise, 2000V/s

Lab Environmental Condition: (23 ± 2) °C, (50 ± 5) %RH

Test Result:

Sample A

Specimen	Thickness, mm	Dielectric Breakdown Voltage, kV
1	2.75	20.80
2	2.87	21.60
3	2.93	19.80
4	2.88	18.90
5	2.83	21.30
Median	/	20.80

Note: Test specimens were cut from the sample.



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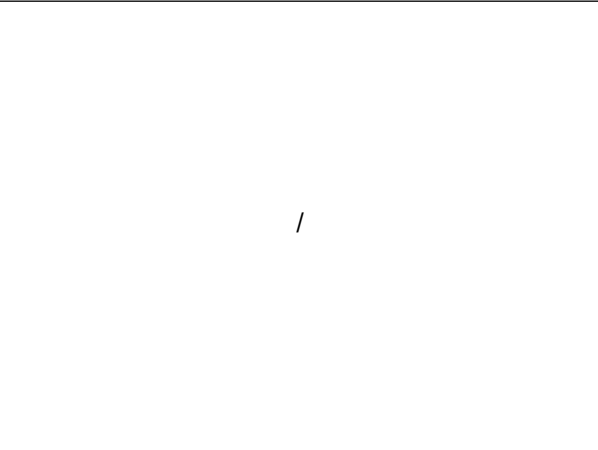
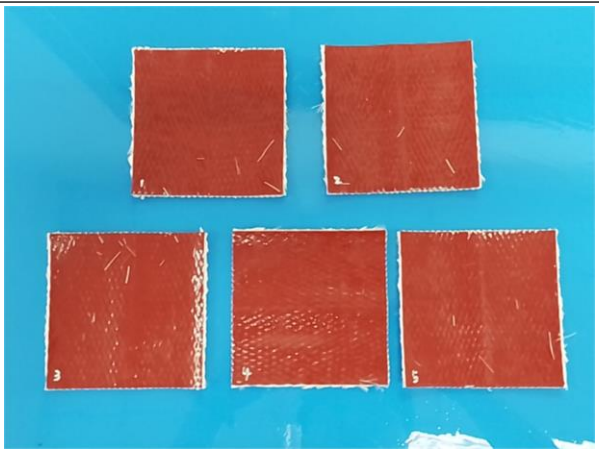
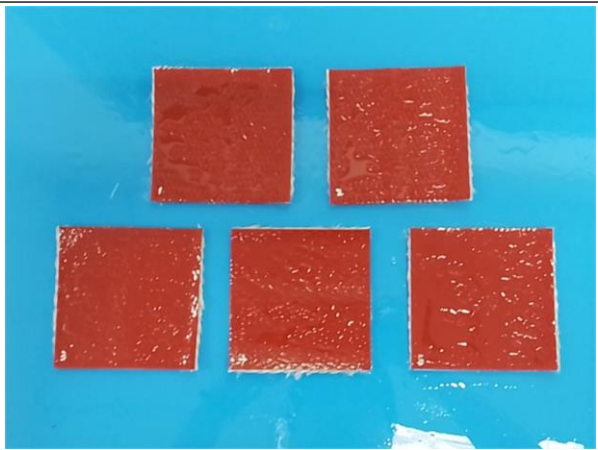
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Test Photo:

	
Original Sample-Sample A	/
	
Before Test-Sample A	After Test-Sample A

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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
AC/DC High Voltage Tester	JTKZ-1	P-207	2024-10-22	2025-10-21
Digit Calliper	0-150mm/0.01mm	P-698	2025-02-14	2026-02-13

Appendix information:

*The test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc. and just for client internal reference.

***** End of report*****



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