

No.: SZIN2106007854PS

Date: Jul 05, 2021

Page: 1 of 8



CUSTOMER NAME: DURIO PPE SDN. BHD.

ADDRESS: 16, JALAN TEMENGGONG, 81100 JOHOR BAHRU, JOHOR,

MALAYSIA

Durio Melt Blown Non-Woven Fabric Sample Name

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. : CA66562; GZIN2106035964MR

Date of Receipt : Jun 24, 2021 **Testing Start Date** : Jun 24, 2021 **Testing End Date** : Jul 05, 2021

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 Co., Ltd. Shenzhen Branch **Testing Center**

James Zheng

Authorized signatory



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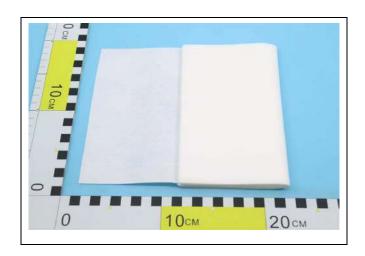
Date: Jul 05, 2021

Page: 2 of 8

Summary of Results:

No.	Test Item	Test Method	Result
			The characteristic structure and
1	Substance Identification	SEM-EDS	elemental composition of
			graphene were not detected

Original Sample Photo:





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No.: SZIN2106007854PS

Date: Jul 05, 2021

Page: 3 of 8

Test Item: Graphene Identification

Sample Description: Fabric

Test Method: Scanning electron microscope with energy dispersive spectrometer (SEM/EDS)

Test Result:

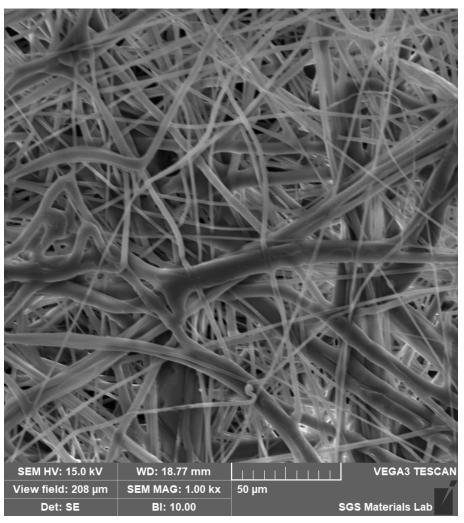


Fig.1 SEM image of the original Sample



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No.: SZIN2106007854PS

Date: Jul 05, 2021

Page: 4 of 8

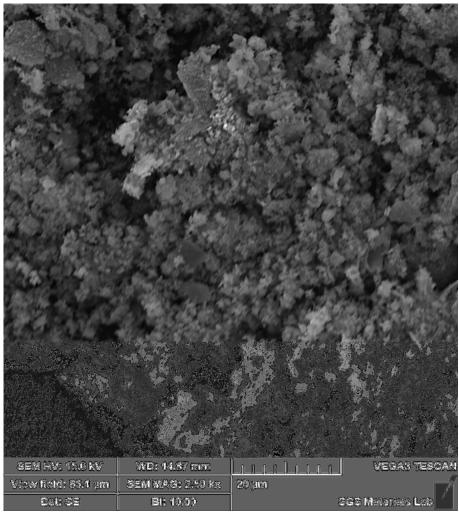


Fig.2 SEM image of the calcination ash of sample (under nitrogen protection)



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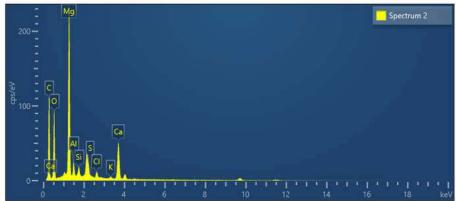
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No.: SZIN2106007854PS

Date: Jul 05, 2021

Page: 5 of 8



Spectrum 2				171
Element	Line Type	Weight %	Weight % Sigma	Atomic %
С	K series	45.20	0.50	57.44
0	K series	30.38	0.37	28.98
Mg	K series	15.50	0.17	9.73
Al	K series	1.48	0.05	0.84
Si	K series	0.81	0.04	0.44
S	K series	0.00	0.04	0.00
Cl	K series	0.69	0.03	0.30
K	K series	0.23	0.03	0.09
Ca	K series	5.70	0.09	2.17
Total	1	100.00	7	100.00

Fig.3 EDS spectra of the calcination ash of sample-spectrum1



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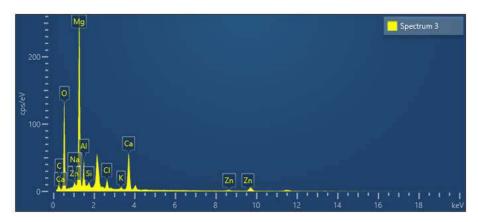
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No.: SZIN2106007854PS

Date: Jul 05, 2021

Page: 6 of 8



Spectrum 3	1			
Element	Line Type	Weight %	Weight % Sigma	Atomic %
С	K series	14.40	0.87	22.11
0	K series	42.56	0.51	49.05
Na	K series	0.45	0.10	0.36
Mg	K series	25.70	0.32	19.49
Al	K series	4.93	0.12	3.37
Si	K series	0.70	0.06	0.46
Cl	K series	1.55	0.06	0.80
K	K series	0.43	0.05	0.20
Ca	K series	8.63	0.14	3.97
Zn	K series	0.66	0.16	0.19
Total	1	100.00		100.00

Fig.4 EDS spectra of the calcination ash of sample-spectrum2



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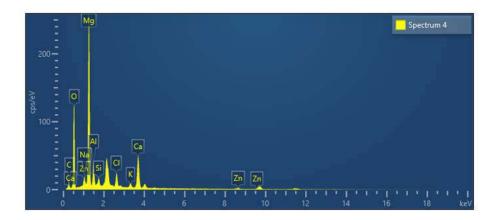
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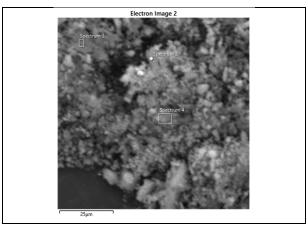
Page: 7 of 8



Spectrum 4	1	7		
Element	Line Type	Weight %	Weight % Sigma	Atomic %
С	K series	13.87	0.82	21.60
0	K series	41.20	0.48	48.15
Na	K series	0.89	0.11	0.72
Mg	K series	25.82	0.30	19.86
Al	K series	4.45	0.11	3.08
Si	K series	1.22	0.07	0.81
CI	K series	2.52	0.07	1.33
K	K series	0.90	0.05	0.43
Ca	K series	7.77	0.13	3.63
Zn	K series	1.37	0.17	0.39
Total		100.00		100.00

Fig.5 EDS spectra of the calcination ash of sample-spectrum3

Test photo:



Note: SEM-EDS is qualitative and semi-quantitative test, the result is for reference only.



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No.: SZIN2106007854PS

Date: Jul 05, 2021

Page: 8 of 8

Conclusion:

As per test specified above, the calcination ash of sample (under nitrogen protection) showed a granular morphology, and its elemental composition includes carbon, oxygen and calcium. The characteristic structure and elemental composition of graphene were not found.

Note:

- 1. According to the related description in ISO/TS 80004-13:2017and GB/T 30544.13-2018, the graphene layers can be generally referred to the 2D materials consisting of honeycomb-like carbon sheets with a stacking number less than ten.
- 2. Effected by the particle distribution, processing conditions and stocking conditions, graphene layers might aggregate into graphite flakes with a stacking number more than ten. The poor-reduced and poor-exfoliated reduced oxidized graphene oxide (rGO) might not exhibit the characteristic structure and elemental composition of graphene.

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
SEM/EDS	VEGA3 (SEM)/ XMX1010 (EDS)	GZMR-PL-E309	2021-04-21	2022-04-20

Appendix information:

The test method was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.

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



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