

Report No.: SCL01G008831

15.测减测

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Customer :CIXI JIEDA NANOMETER COMPOUND MATERIALS CO., LTD :INDUSTRIAL DEVELOPMENT ZONE KANDUN TOWN, CIXI CITY, Address ZHEJIANG PROVINCE The following sample information were submitted and identified by client as: Sample Name :1.Charcoal filament 2.Filament :Jun. 13, 2014 **Sample Received Date Testing Period** :Jun. 13, 2014 to Jun. 27, 2014 :As specified by client, to analyse the submitted sample. **Test Requested Test Apparatus** :Fourier Transform Infrared Spectroscopy(FTIR) Scanning Electron Microscope/Energy Dispersive Spectrometer (SEM/EDS), Thermogravimetric Analysis(TGA) **Test standard** :Refer to GB/T 6040-2002, GB/T 17359-2012, ISO 11358:1997 Test Result(s) :Please refer to the following page(s) ***To be continued*** Liao toan. Tested by Reviewed by Whin Jiang Approved by Date Jun. 27, 2014 Colin Jiang Technical Manager NO. R121038488 ational (Shenzhen) Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China Intline

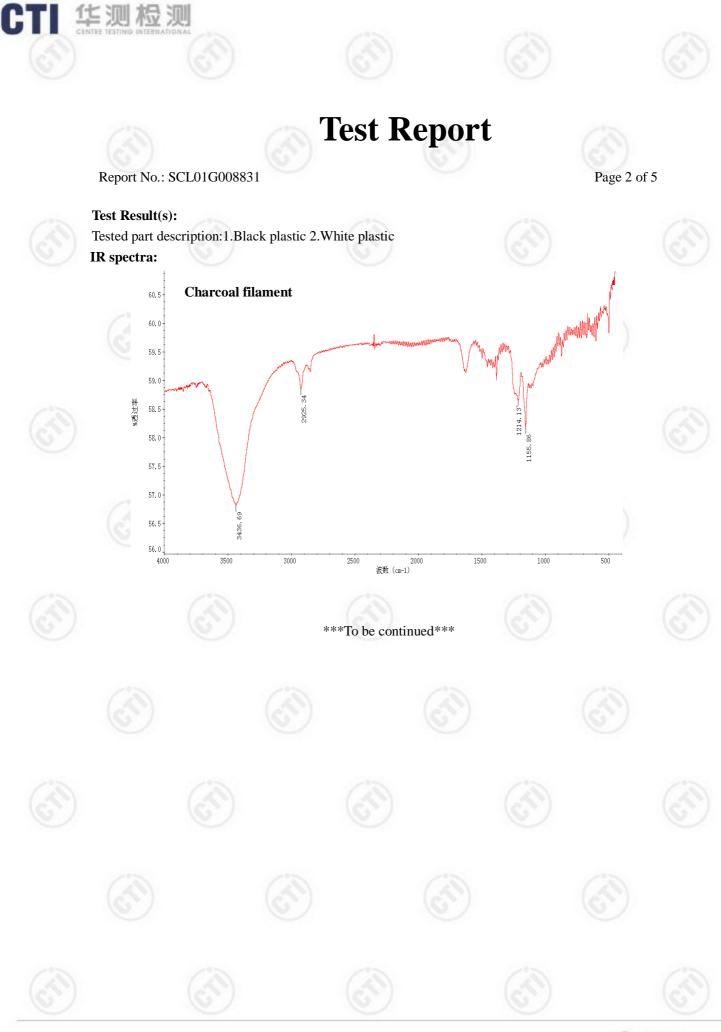
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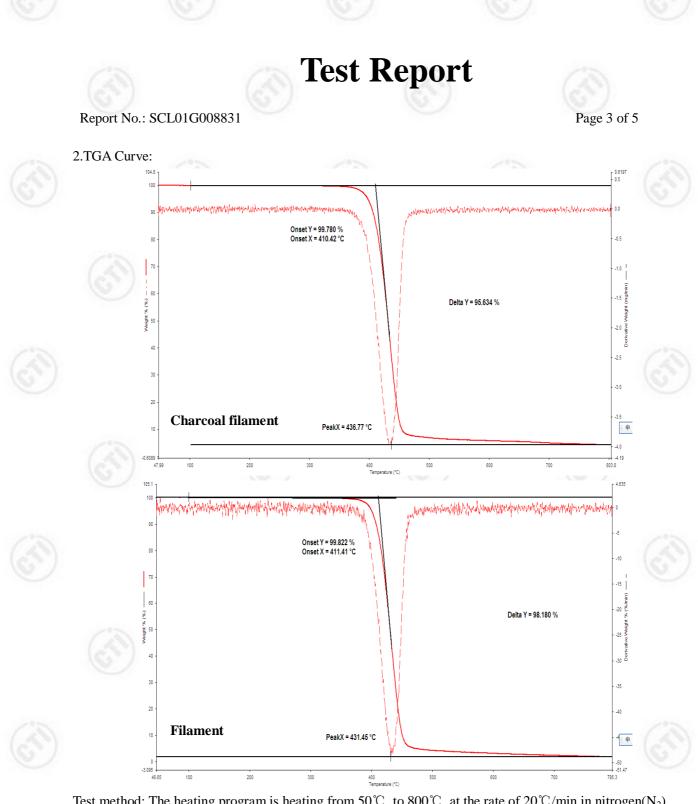
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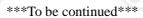
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Test method: The heating program is heating from 50 $^{\circ}$ C to 800 $^{\circ}$ C at the rate of 20 $^{\circ}$ C/min in nitrogen(N₂).





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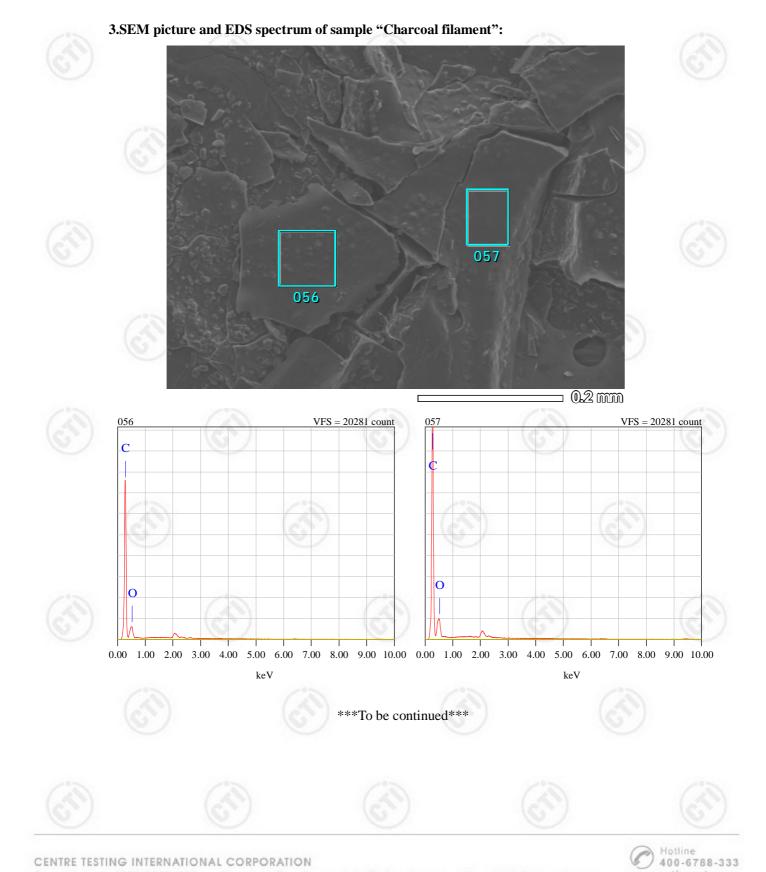
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Tested Areas	Element Content (Wt%)		
	С	0	6
056	89.06	10.94	
057	88.91	11.09	

Remark: Wt% =Weight percent

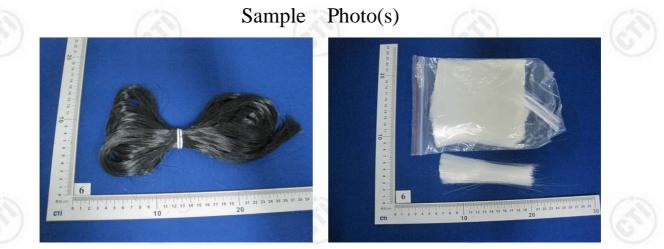
056 and 057 were selected test areas for SEM/EDS analysis.

Conclusion:

According to the results of FTIR spectrum, SEM/EDS and TGA, the content of carbon black is about 2.5% in "charcoal filament" (the content of carbon black is got from TGA result s according to client's requirements).

Remark: The residue after TGA pyrolyzing is tested by FTIR and SEM/EDS.

Note: SEM/EDS is a qualitative and semiquantitative instrument analysis method, which cancover elements in periodic table from boron (B) to Uranium (U). The results are for reference only due to its limitations.



Charcoal filament

Filament

*** End of Report ***

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