



TEST REPORT

No. : GZIN160500929CCM

Date : Jun. 13, 2016

Page: 1 of 10

CLIENT NAME: ANHUI RED FOREST NEW MATERIAL TECHNOLOGY CO., LTD.

ADDRESS: JAC AUTO PARTS INDUSTRIAL PARK IN GANGJI TOWN, HEFEI CITY, ANHUI, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : WPC
Spec. : K25-150
SGS Ref. No. : GZIN160500929CCM
Sample information : Product or Lot No.:20160523
Test Performed : Selected test(s) as requested by applicant
Date of Receipt : May. 30, 2016
Test Period : May. 30, 2016 to Jun. 13, 2016

Test result(s) : Please refer to the following page(s)

*****To be continued*****

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co.,Ltd
Guangzhou Branch

Jay Xue
Authorized signatory

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Guangzhou Branch Testing Service Construction Material Laboratory

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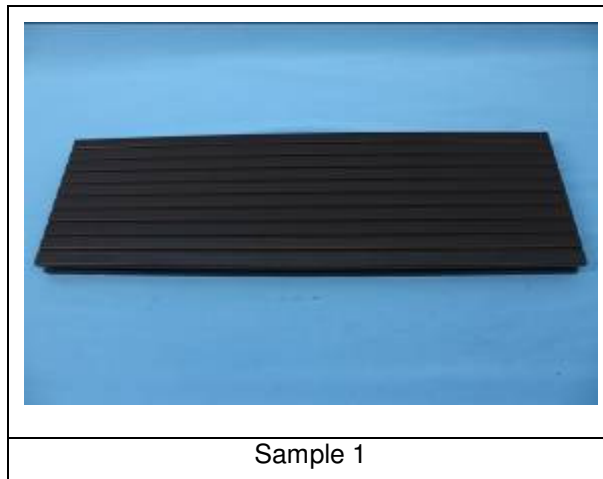
Page: 2 of 10

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Composition Analysis	FTIR, PGC-MS, XRF, DSC and TGA	See results	/

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

Original Sample Photo:



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Test Item: Composition Analysis

Sample Description: Plastic part

Test Method:

Fourier Transform Infrared Spectrometer (FTIR)

Pyrolysis-Gas Chromatography Mass Spectrometry (PGC-MS)

X-Ray Fluorescence Spectrometer (XRF)

Differential Scanning Calorimeter (DSC)

Thermogravimetric Analyzer (TGA)

Test Result:

No.	Composition	Content, Wt%	CAS. No.	Function
1	Cellulose	51	/	Polymer
2	Polyethylene(PE)	28	/	Polymer
3	Polypropylene(PP)	3	/	Polymer
4	Fatty acid ester	3	/	Lubricant
5	wax		/	Lubricant
6	Calcium carbonate	15	471-34-1	Filler
7	Pigment		/	Pigment

Note:

1. Wt% - weight percent.
2. Quantitative data is for reference only.

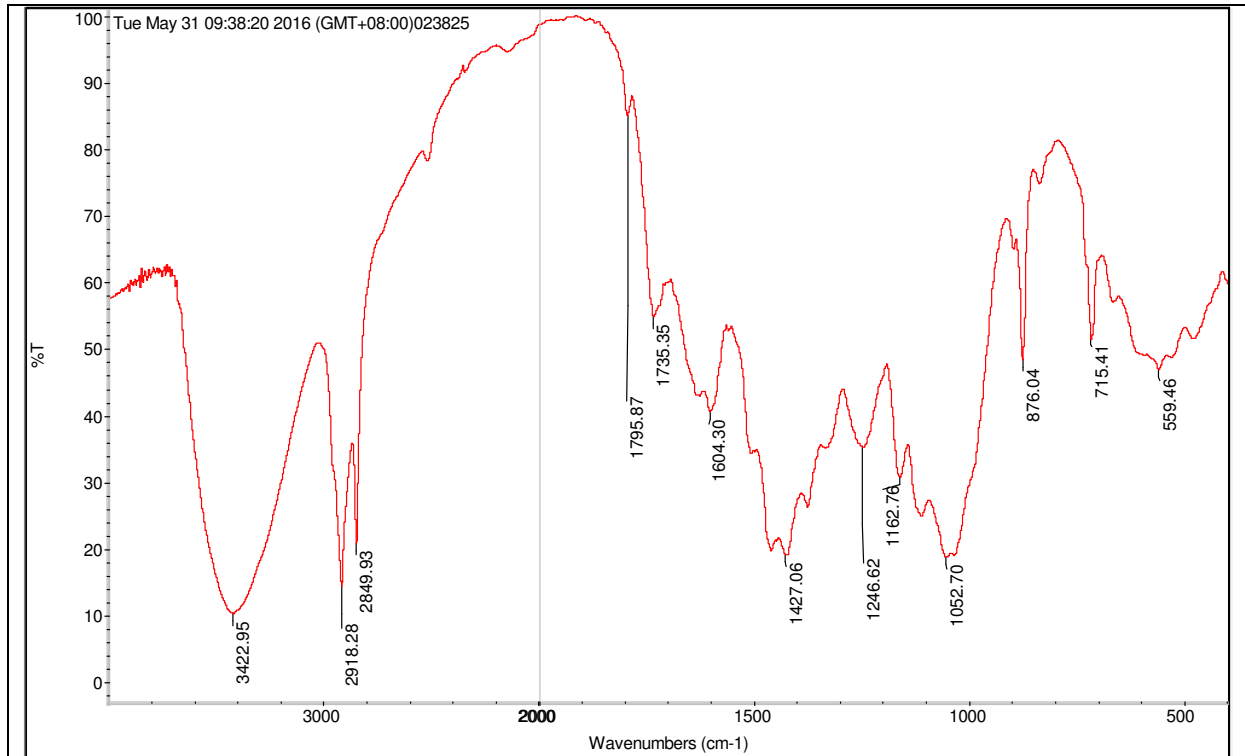


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Fig.1: FTIR spectrum of original sample

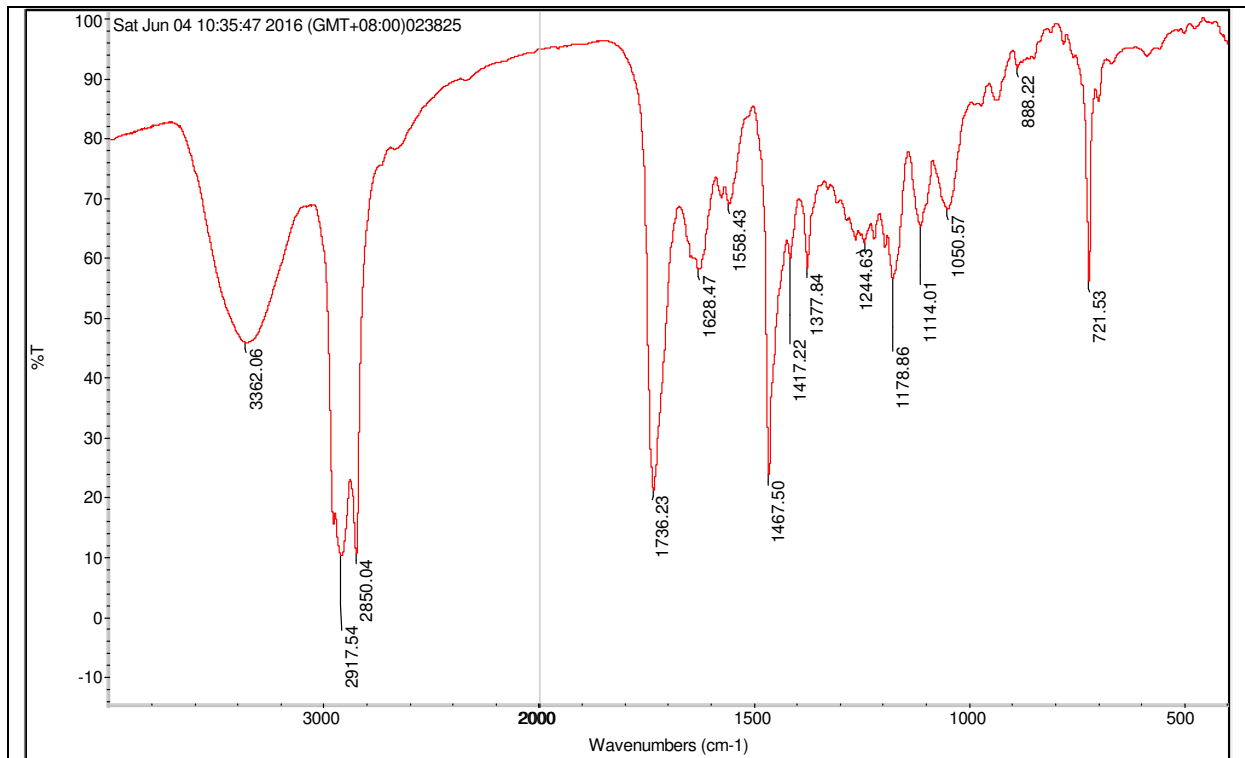


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Fig.2: FTIR spectrum of extractive

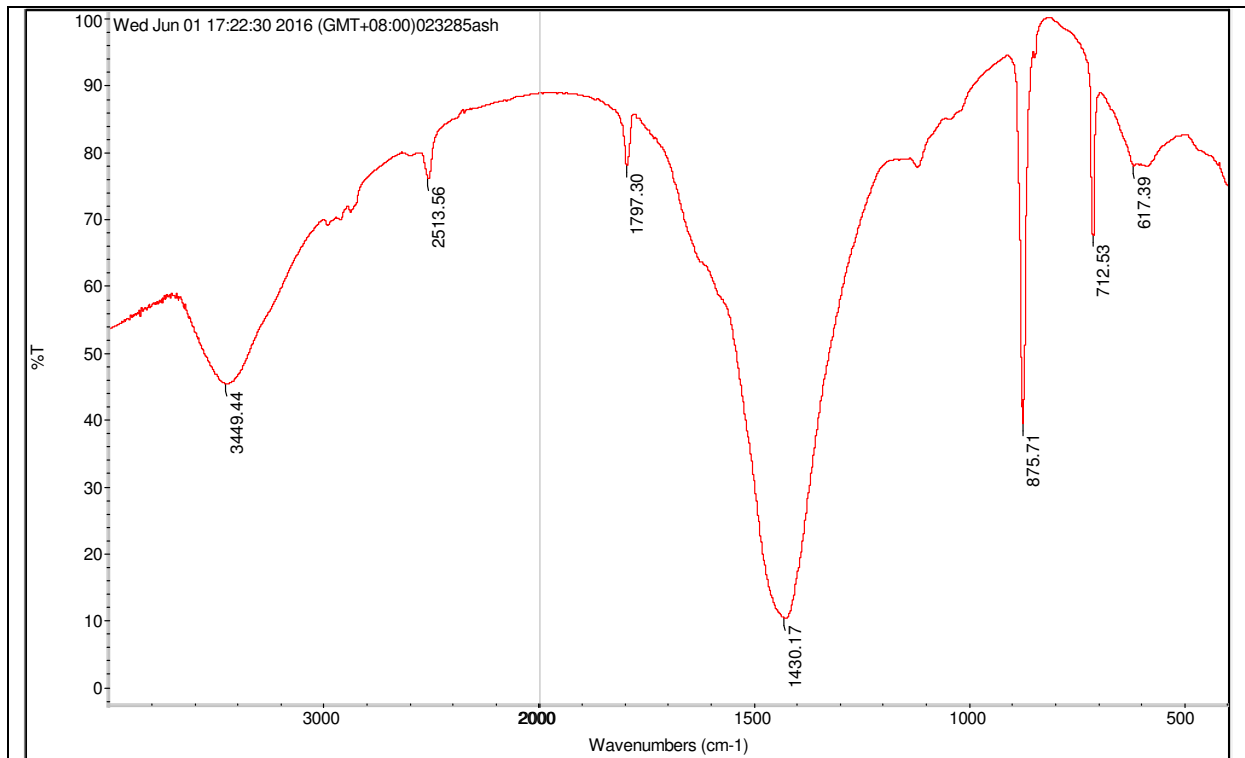


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Fig.3: FTIR spectrum of calcination residue

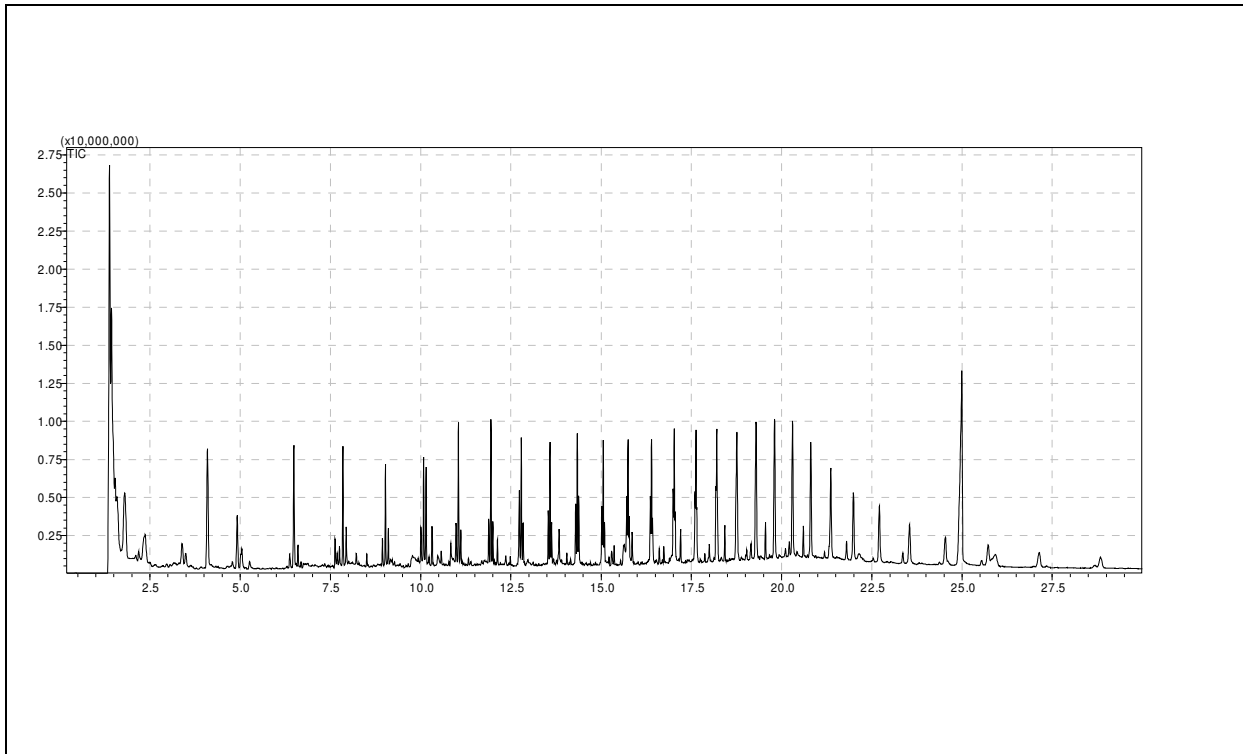


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Fig.4: PGC-MS of sample



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Fig.5: XRF result of sample

Operator: sw							
Comment : chem-036-e							
Group : A750							
Date : 2016-06-01 16:19:46							
Measurement Condition							

Instrument: EDX-720 Atmosphere: Vac. Collimator: 10(mm) Spin: Off							

Analyte	TG kV	uA	FI	Acq. (keV)	Anal. (keV)	Time (sec)	DT (%)

Ti-U	Rh 50	34-Auto	----	0 - 40	0.00-40.00	Live- 50	39
Na-Sc	Rh 15	298-Auto	----	0 - 20	0.00- 4.40	Live- 50	39
Quantitative Result							

Analyte	Result	(Std.Dev.)	Proc.-Calc.	Line	Int. (cps/uA)		

Ca	67.831 %	(0.099)	Quan-FP	CaKa	32.1998		
Fe	24.681 %	(0.072)	Quan-FP	FeKa	69.2596		
Ti	2.116 %	(0.042)	Quan-FP	TiKa	2.1033		
K	2.107 %	(0.021)	Quan-FP	K Ka	1.1070		
Mg	1.513 %	(0.074)	Quan-FP	MgKa	0.0462		
Si	1.091 %	(0.020)	Quan-FP	SiKa	0.2881		
Al	0.359 %	(0.028)	Quan-FP	AlKa	0.0288		
S	0.302 %	(0.006)	Quan-FP	S Ka	0.3111		

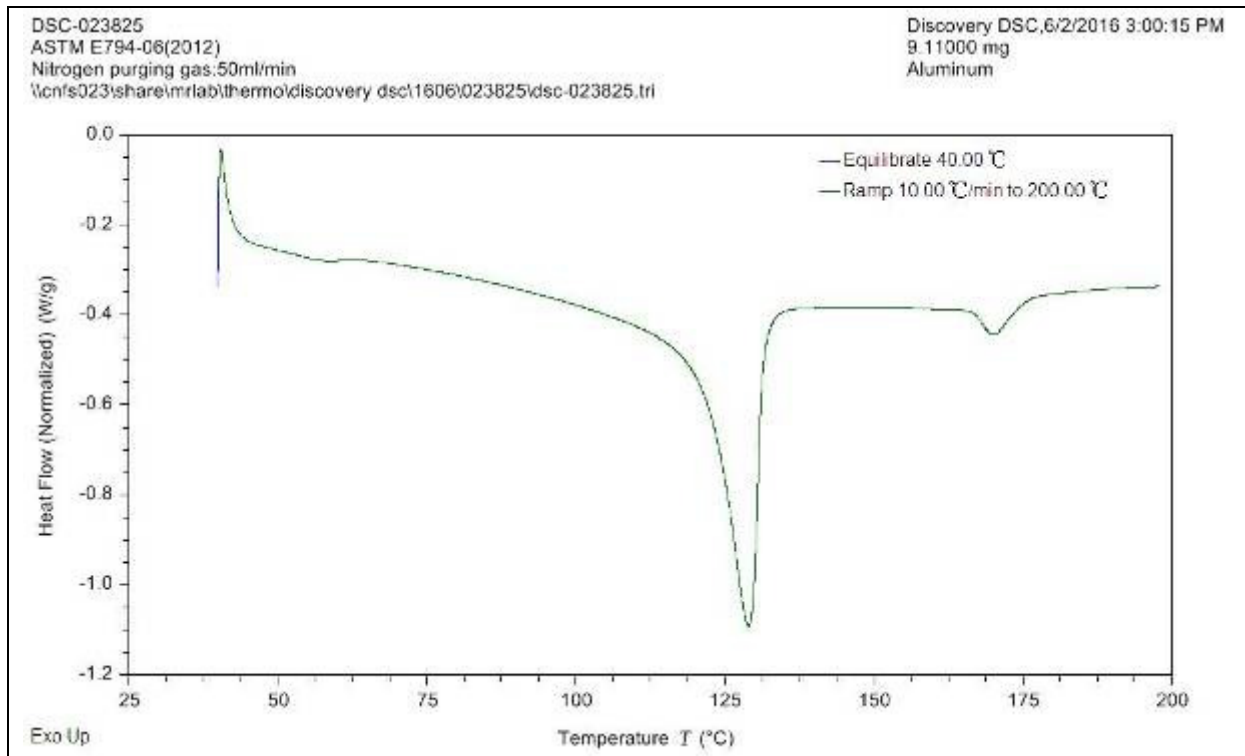


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Fig.6: DSC curve of sample



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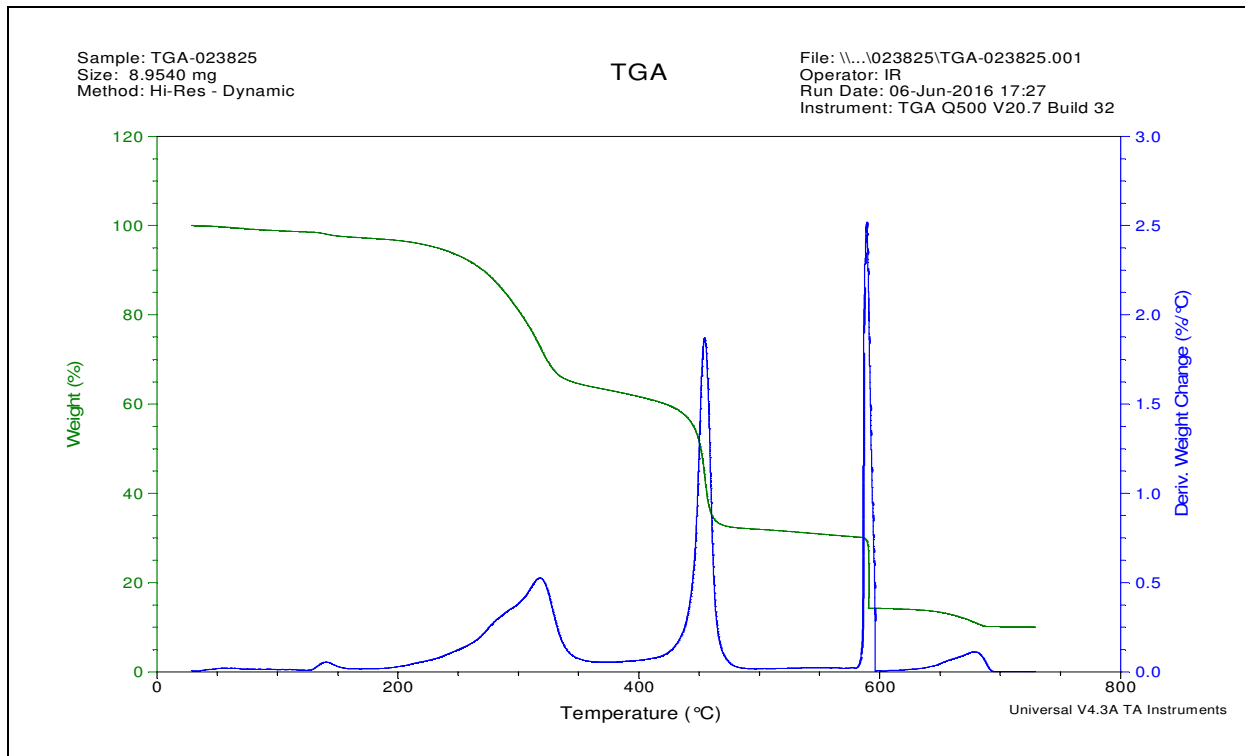
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Fig.7: TGA curve of sample



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



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