

TEST REPORT

No. : GZIN1912064759PS

Date : Dec 06, 2019

Page: 1 of 5



CUSTOMER NAME: WALER PRECISION MANUFACTURING SDN. BHD.
ADDRESS: NO.2 & 4, JALAN CANGGIH 1, TAMAN PERINDUSTRIAN
CEMERLANG,81800 ULU TIRAM, JOHOR, MALAYSIA

Sample Name : RESYSTA FIBER POLYMER COMPOSITES

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. : SGS/2019-11-26-010/CA26863
Date of Receipt : Dec 02, 2019
Testing Start Date : Dec 02, 2019
Testing End Date : Dec 06, 2019
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. GZ Branch Testing
Center

Eleain Fan
Authorized signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center Materials Laboratory

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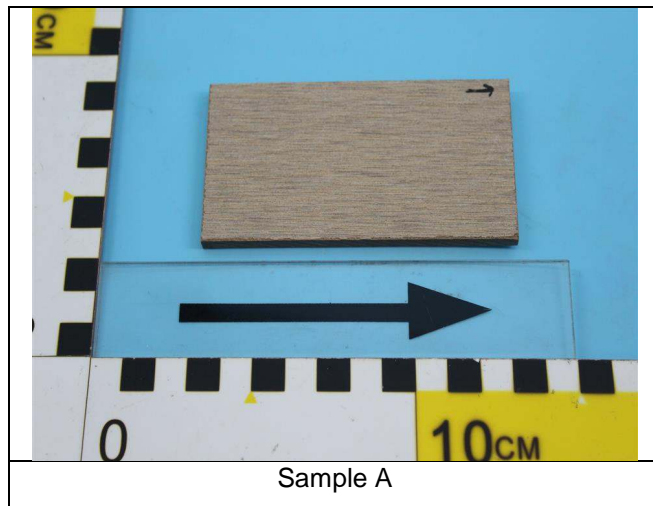
Page: 2 of 5

Summary of Results:

No.	Test Item	Test Method	Result		Conclusion
1	Mean Coefficient of Linear Thermal Expansion	ASTM E831-19	-30°C~30°C	44.3μm/(m·°C)	/
			30°C~70°C	49.8μm/(m·°C)	

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

Original Sample Photo:



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 检验检测专用章
 Inspection & Testing Services
 Guangzhou Branch

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No. : GZIN1912064759PS

Date : Dec 06, 2019

Page: 3 of 5

Test Item: Mean Coefficient of Linear Thermal Expansion

Sample Description: Board

Test Method: ASTM E831-19

Test Condition:

Specimen: 10.32mm×5.30mm×5.27mm

Rate of temperature: 5°C/min

Load: 50mN

Flow rate (He): 50ml/min

Test temperature: -30°C~70°C

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

Test Result:

Test Item	Test Result	
Mean Coefficient of Linear Thermal Expansion	-30°C~30°C	44.3µm/(m·°C)
	30°C~70°C	49.8µm/(m·°C)

Note: Test specimens were cut from the sample.



SGS-CSTC Testing Services Co., Ltd.
Guangzhou Branch Testing Center Materials Laboratory

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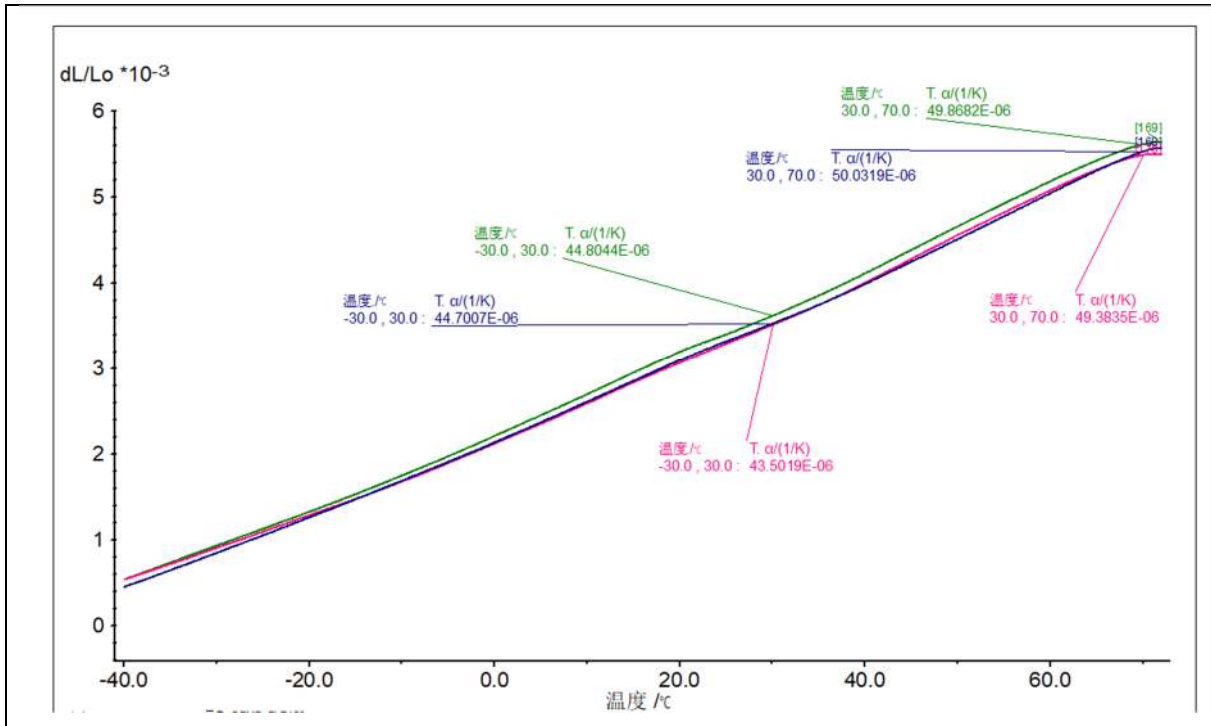
TEST REPORT

No. : GZIN1912064759PS

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Page: 4 of 5

Curve:



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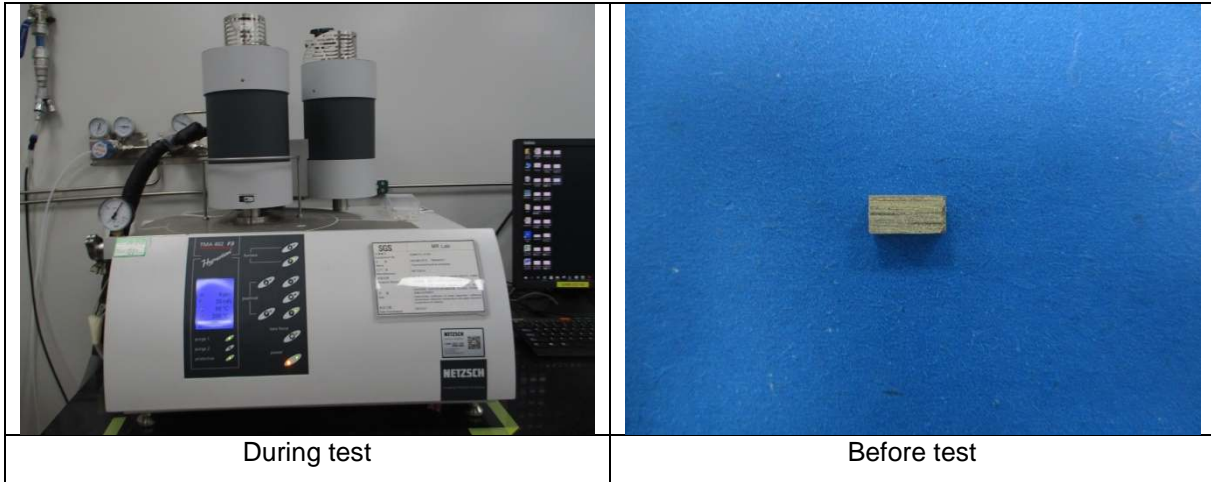
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No. : GZIN1912064759PS

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Page: 5 of 5

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Thermo Mechanical Analyzer	TMA402F3	GZMR-PL-E158	2019-09-02	2020-09-01

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



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