

TEST REPORT

No. : GZMR230802364401-2
Date : Dec 22, 2023
Page: 1 of 14



CUSTOMER NAME: Dongguan Dongquan Mould Material Co., Ltd.
ADDRESS: No.10 Yihuan Road,Chiling Industrial,Dongguan City,Guangdong Province,China

Sample Name : Polyurethane Tooling Board DQ460
Part No : DQ460
Material and Mark : DQ460
Manufacturer : Dongguan Dongquan Mould Material Co., Ltd.
Manufacturer Address : Room105, No.10 Yihuan Road,Chiling Industrial,Dongguan City,Guangdong Province,China
Sample Source : Sent by client
Other Information : Supplier: Dongguan Dongquan Mould Material 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. : GZAT2308011875NM-01
Date of Receipt : Aug 16, 2023
Testing Start Date : Aug 16, 2023
Testing End Date : Aug 23, 2023
Test Result(s) : For further details, please refer to the following page(s)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. Guangzhou Branch

Cathy Peng
Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
□ No.198, Kezhu Road, Science City Economic & Technology Development Area, Guangzhou, Guangdong, China □ Room 101, Building 3, No.1501, Kaichang Avenue, Huangpu District, Guangzhou, China (86-20) 8215555 www.sgsgroup.com.cn
中国·广东·广州高新技术产业开发区科学城科珠路198号 中国·广东·广州市黄埔区开创大道1501号3栋101房 (86-20) 8215555 sgs.china@sgs.com

TEST REPORT

No. : GZMR230802364401-2

Date : Dec 22, 2023

Page: 2 of 14

Report Declaration:

In the territory of the People's Republic of China, the test report without CMA logo expresses 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.

Manufacture Declaration or Comment:

None

Summary of Result(s):

No.	Test Item	Test Method	Test Result	Conclusion	
1.	Compressive Strength	ISO 604:2002	49.3MPa	N/A	
2.	Deflection Temperature under Load	ISO 75-1:2020 & ISO 75-2:2013 Method A	80°C	N/A	
3.	Density	ISO 1183-1:2019 Method A	0.753g/cm ³	N/A	
4.	Flexural Test	ISO 178:2019 Method A	Flexural Strength	40.2MPa	N/A
			Flexural Modulus	2250MPa	
5.	Shore Hardness	ISO 868:2003	D/15:73	N/A	
6.	Mean Coefficient of Linear Thermal Expansion	ISO 11359-1:2023 & ISO 11359-2:2021 Method A	43×10 ⁻⁶ K ⁻¹	N/A	
7.	Charpy Unnotched Impact Strength	ISO 179-1:2023	6.4kJ/m ² C (complete break)	N/A	

Note: Pass: Meet the requirements;
Fail: Does not meet the requirements;
N/A: Not apply to the judgment or Not applicable



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.198, Kaifu Road, Science City Economic & Technology Development Area, Guangzhou, Guangdong, China
 Room 101, Building 3, No.15011, Kaichuang Avenue, Huangpu District, Guangzhou, China
 (86-20) 8215555
 www.sgsgroup.com.cn
 中国·广东·广州高新技术产业开发区科学城科珠路198号
 中国·广东·广州市黄埔区开创大道1501号3栋101房
 (86-20) 8215555
 sgs.china@sgs.com

TEST REPORT

No. : GZMR230802364401-2

Date : Dec 22, 2023

Page: 3 of 14

1. Test Item: Compressive Strength

Sample Description: Plastic part

Test Method: ISO 604:2002

Test Condition:

Specimen: 10.0mm × 8.76mm × 4.06mm

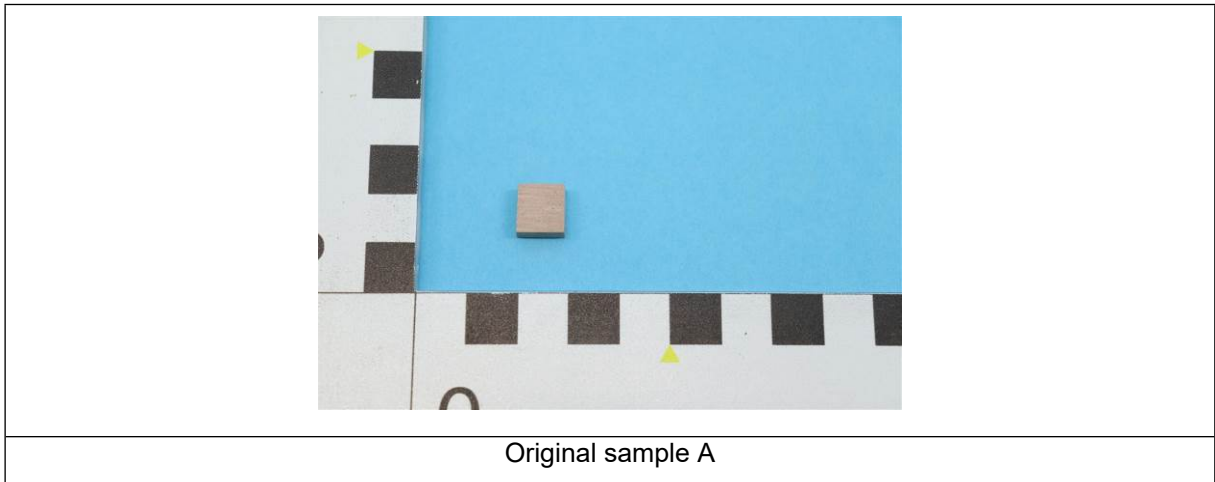
Testing speed: 5mm/min

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

Test Result:

Test Item	Test Result
Compressive Strength	49.3MPa

Test Photo:



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

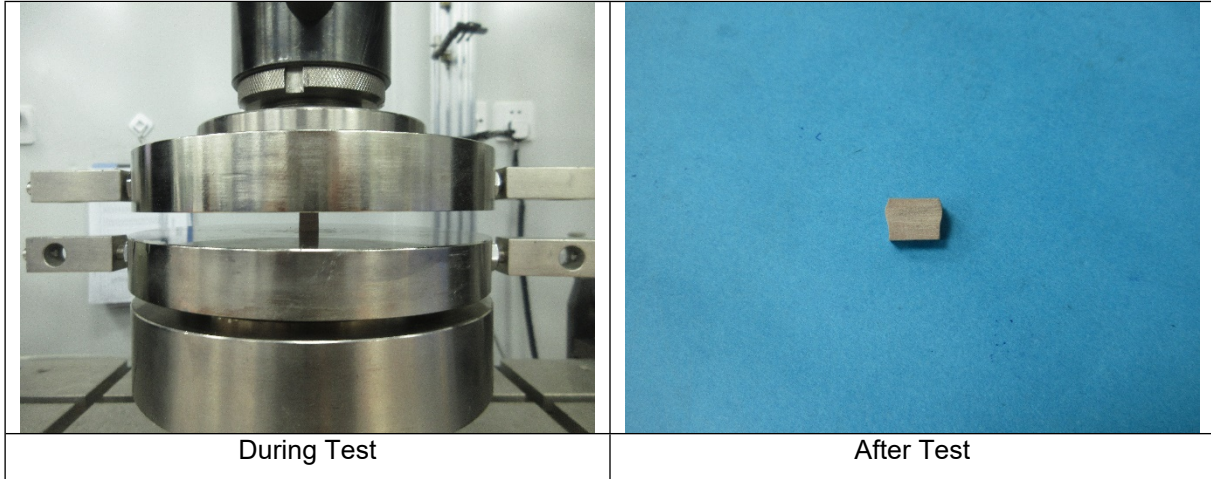
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 □ No.198, Kaifu Road, Science City Economic & Technology Development Area, Guangzhou, Guangdong, China □ Room 101, Building 3, No.15011, Kaichuang Avenue, Huangpu District, Guangzhou, China (86-20) 8215555 www.sgs.com sgs.china@sgs.com
 中国·广东·广州高新技术产业开发区科学城科珠路198号 中国·广东·广州市黄埔区开创大道1501号3栋101房 (86-20) 8215555 sgs.china@sgs.com

TEST REPORT

No. : GZMR230802364401-2

Date : Dec 22, 2023

Page: 4 of 14



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal testing machine	E45.105	GZMR-PL-E307	2023-03-01	2024-02-29

2. Test Item: Deflection Temperature under Load

Sample Description: Bar

Test Method: ISO 75-1:2020 & ISO 75-2:2013 Method A

Test Condition:

Specimen: 80mm×9.59mm×4.15mm

Heat-transfer media: Silicone oil

T_f1.8

Rate of temperature: 120°C/h

Span: 64mm

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

Test Result:

Test Item	Test Result
Deflection Temperature under Load	80°C



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 □ No.198, Kaifu Road, Science City Economic & Technology Development Area, Guangzhou, Guangdong, China □ Room 101, Building 3, No.15011, Kaichuang Avenue, Huanggu District, Guangzhou, China t(86-20) 8215555 www.sgs.com.cn
 中国·广东·广州高新技术产业开发区科学城科珠路198号 中国·广东·广州市黄埔区开创大道1501号3栋101房 t(86-20) 8215555 sgs.china@sgs.com

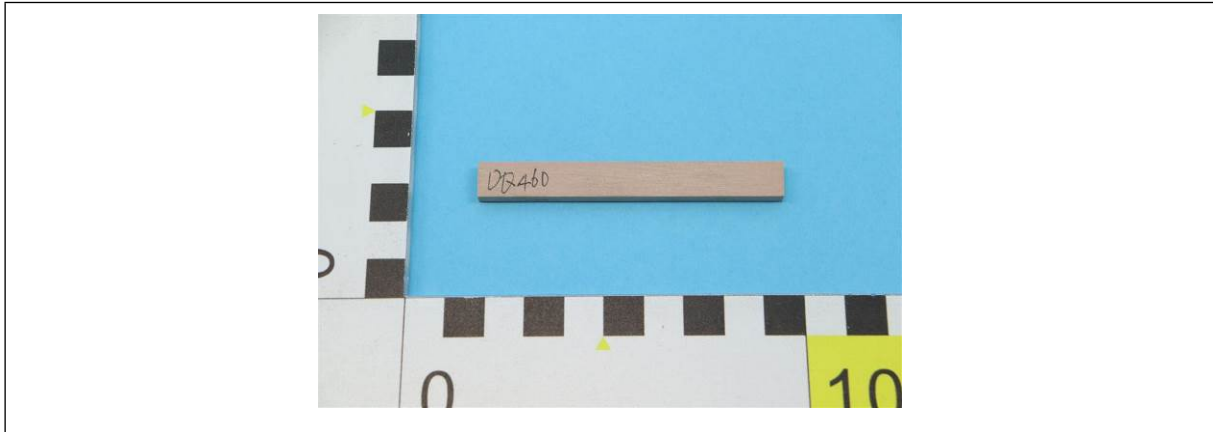
TEST REPORT

No. : GZMR230802364401-2

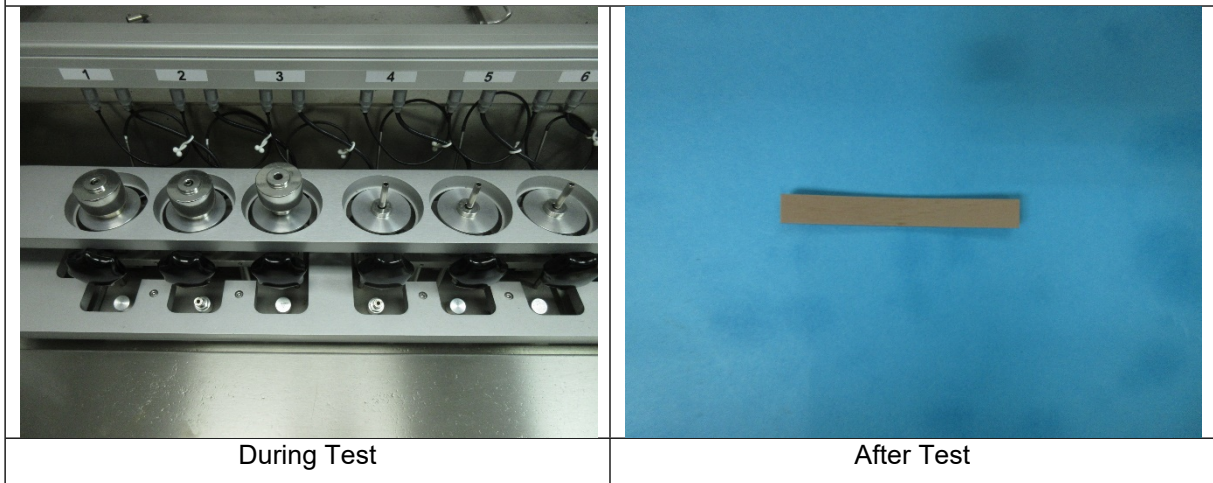
Date : Dec 22, 2023

Page: 5 of 14

Test Photo:



Original sample A



During Test

After Test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
HDT and VICAT Tester	IC 6	GZMR-PL-E348	2023-06-21	2024-06-20



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS CSTC (Guangzhou) Technical Services Co., Ltd.
Guangzhou Branch Testing Services & Reliability Laboratory

中国·广东·广州高新技术产业开发区科学城科珠路198号 中国·广东·广州市黄埔区开创大道1501号3栋101房
t:(86-20) 8215555 www.sgsgroup.com.cn t:(86-20) 8215555 sgs.china@sgs.com

TEST REPORT

No. : GZMR230802364401-2

Date : Dec 22, 2023

Page: 6 of 14

3.Test Item: Density

Sample Description: Sheet

Test Method: ISO 1183-1:2019 Method A

Test Condition:

Absolute alcohol, 23 ± 0.5 °C

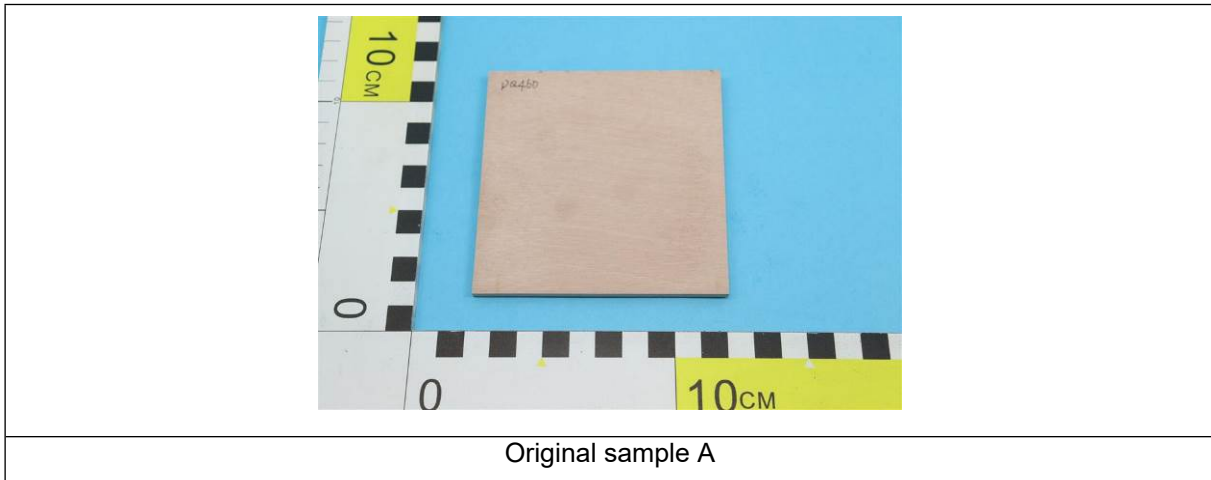
Lab Environmental Condition: 23 ± 2 °C, 50 ± 5 %RH

Test Result:

Test Item	Test Result
Density	0.753g/cm ³

Note: Test specimens were cut from the sample.

Test Photo:



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

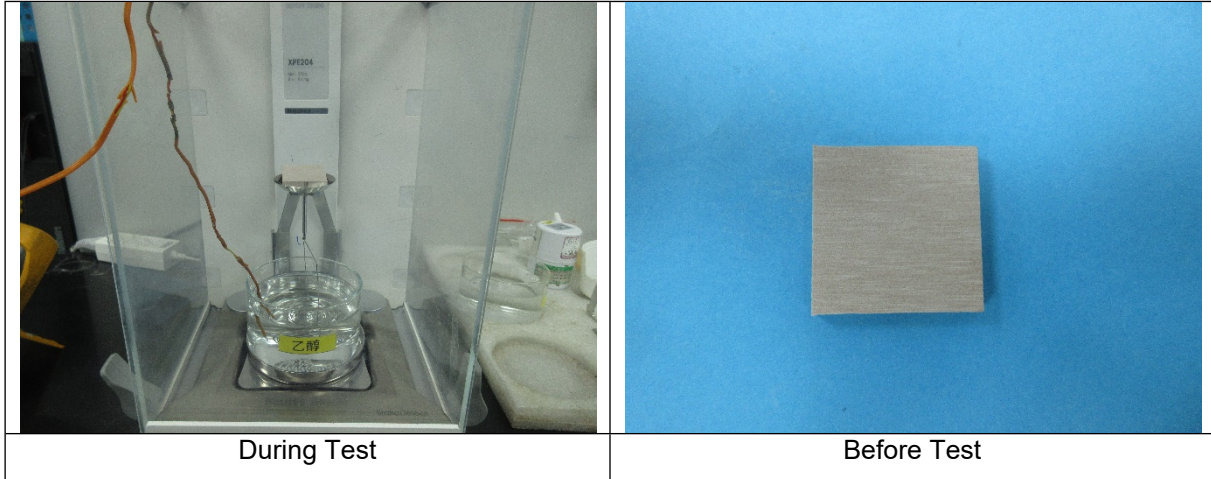
No.198, Kexu Road, Science City Economic & Technology Development Area, Guangzhou, Guangdong, China
 Room 101, Building 3, No.15011, Kaichuang Avenue, Huangpu District, Guangzhou, China
 t(86-20) 8215555
 www.sgs.com.cn
 Guangzhou Branch Testing Services & Reliability Laboratory
 中国·广东·广州高新技术产业开发区科学城科珠路198号
 中国·广东·广州市黄埔区开创大道1501号3栋101房
 t(86-20) 8215555
 sgs.china@sgs.com

TEST REPORT

No. : GZMR230802364401-2

Date : Dec 22, 2023

Page: 7 of 14



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Electron Balance	XPE204	GZMR-PL-E004-06	2023-05-15	2024-05-14

4. Test Item: Flexural Test

Sample Description: Bar

Test Method: ISO 178:2019 Method A

Test Condition:

Specimen: 80mm×9.69mm×4.15mm

Testing speed: 2mm/min

Span: 64mm

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

Test Result:

Test Item	Test Result
Flexural Strength	40.2MPa
Flexural Modulus	2250MPa



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 □ No.198, Kaifu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China □ Room 101, Building 3, No.15011, Kaichuang Avenue, Huanggu District, Guangzhou, China (86-20) 8215555 www.sgsgroup.com.cn
 中国·广东·广州高新技术产业开发区科学城科珠路198号 中国·广东·广州市黄埔区开创大道1501号3栋101房 (86-20) 8215555 sgs.china@sgs.com

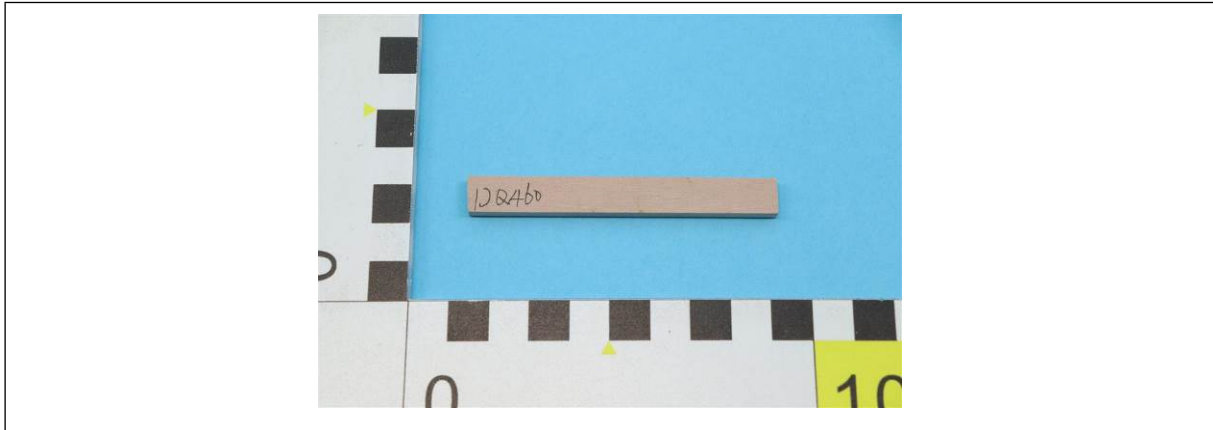
TEST REPORT

No. : GZMR230802364401-2

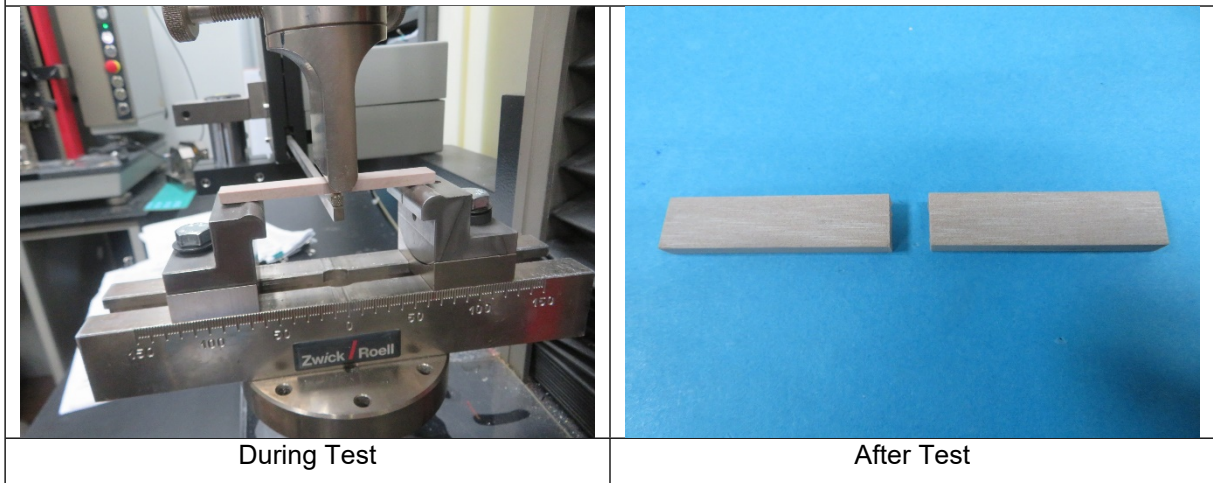
Date : Dec 22, 2023

Page: 8 of 14

Test Photo:



Original sample A



During Test

After Test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z1.0	GZMR-PL-E252	2022-11-15	2023-11-14



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC
Guangzhou Branch Testing, Reliability & Research Laboratory

□ No.198, Kaifu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China □ Room 101, Building 3, No.15011, Kaichuang Avenue, Huangpu District, Guangzhou, China (86-20) 8215555 www.sgsgroup.com.cn
中国·广东·广州高新技术产业开发区科学城科珠路198号 中国·广东·广州市黄埔区开创大道1501号3栋101房 (86-20) 8215555 sgs.china@sgs.com

TEST REPORT

No. : GZMR230802364401-2

Date : Dec 22, 2023

Page: 9 of 14

5. Test Item: Shore Hardness

Sample Description: Sheet

Test Method: ISO 868:2003

Test Condition:

Specimen thickness: 4.13mm

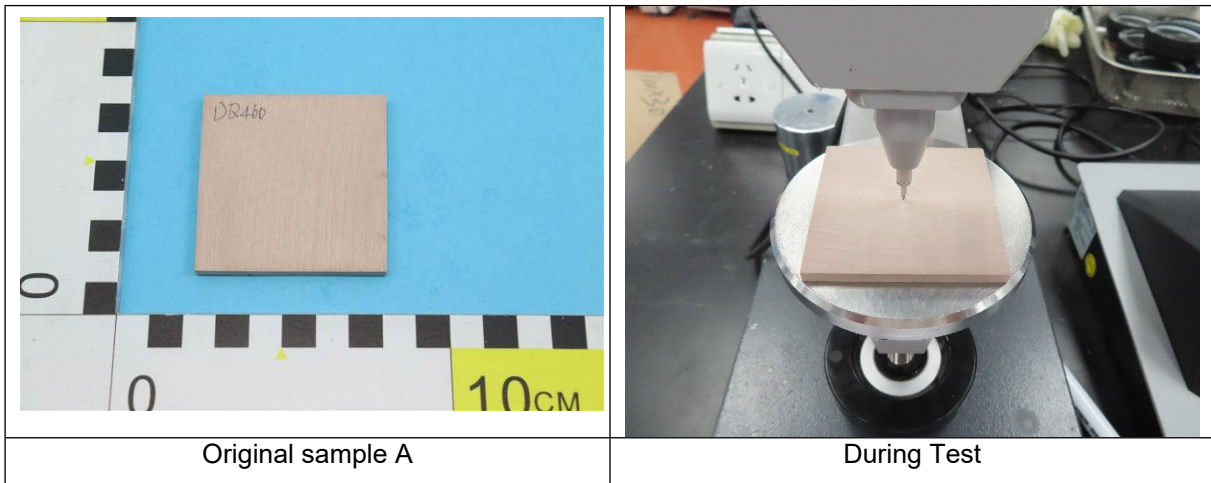
Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Shore Hardness	D/15:73

Note: D/15:X Indicates that D is the type of durometer; 15 s is the reading time; X is the hardness value.

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Multifunction Hardness Tester	Digitest II	GZMR-PL-E156	2023-05-05	2024-05-04



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 □ No.198, Kaifu Road, Science City Economic & Technology Development Area, Guangzhou, Guangdong, China □ Room 101, Building 3, No.15011, Kaichuang Avenue, Huanggu District, Guangzhou, China t(86-20) 8215555 www.sgs.com.cn
 中国·广东·广州高新技术产业开发区科学城科珠路198号 中国·广东·广州市黄埔区开创大道1501号3栋101房 t(86-20) 8215555 sgs.china@sgs.com

TEST REPORT

No. : GZMR230802364401-2

Date : Dec 22, 2023

Page: 10 of 14

6. Test Item: Mean Coefficient of Linear Thermal Expansion

Sample Description: Bar

Test Method: ISO 11359-1:2023 & ISO 11359-2:2021 Method A

Test Condition:

Specimen: 9.67mm×4.51mm×4.19mm

Rate of temperature: 5 °C/min

Load: 50mN

Flow rate(N₂): 50 ml/min

Test temperature: 0 °C~50 °C

Test mode: Compression

Test direction: Length

Number of specimens tested: 3

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

Test Result:

Test Item	Test Result
Mean Coefficient of Linear Thermal Expansion	43×10 ⁻⁶ K ⁻¹



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

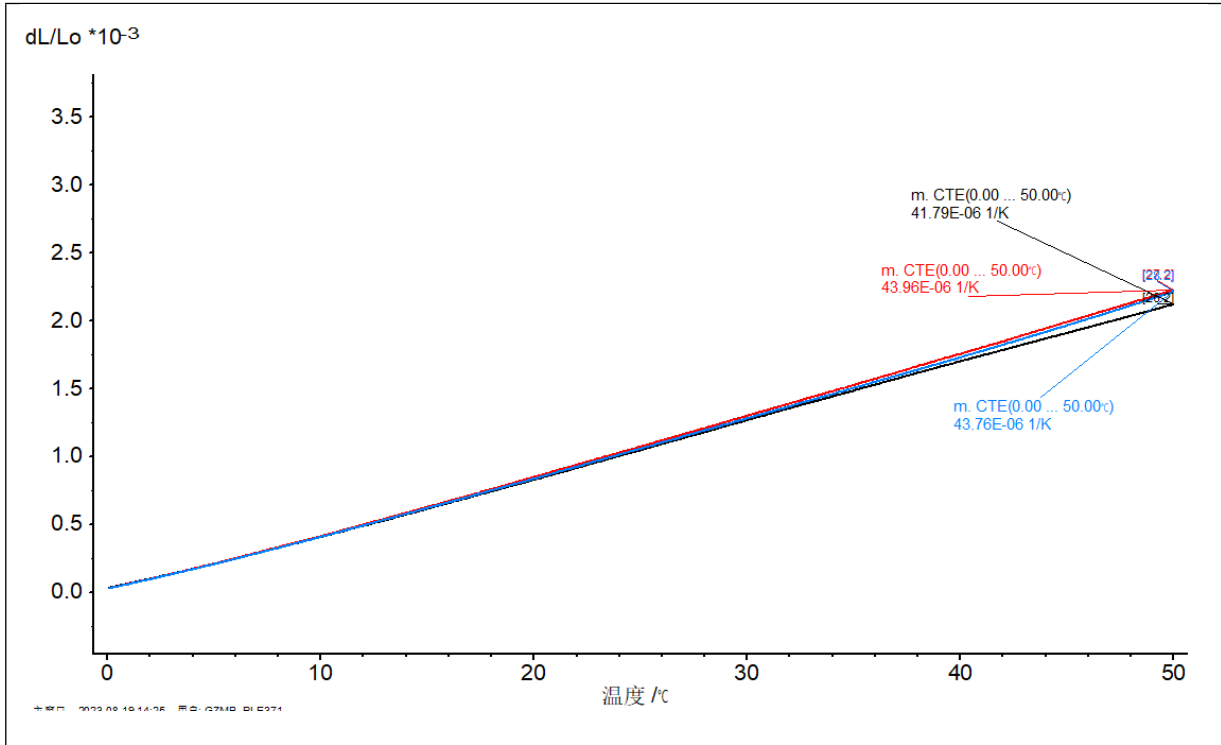
TEST REPORT

No. : GZMR230802364401-2

Date : Dec 22, 2023

Page: 11 of 14

Curve:



日期: 2023年10月11日 报告编号: GZMR 230802364401-2



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC 广州分公司
Guangzhou Branch Testing Services & Reliability Laboratory

中国·广东·广州高新技术产业开发区科学城科珠路198号 中国·广东·广州市黄埔区开创大道1501号3栋101房
t:(86-20) 8215555 www.sgsgroup.com.cn t:(86-20) 8215555 sgs.china@sgs.com

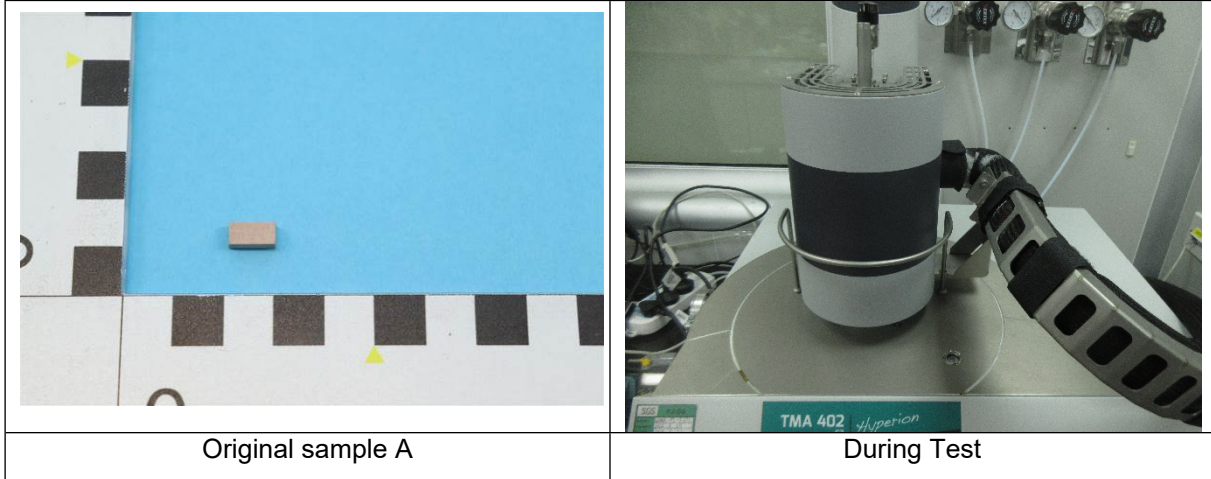
TEST REPORT

No. : GZMR230802364401-2

Date : Dec 22, 2023

Page: 12 of 14

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Thermo Mechanical Analyzer	TMA402F3	GZMR-PL-E371	2023-06-06	2024-06-05



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.198, Kaifu Road, Science City Economic & Technology Development Area, Guangzhou, Guangdong, China
 Room 101, Building 3, No.15011, Kaichuang Avenue, Huanggu District, Guangzhou, China
 t(86-20) 8215555
 www.sgsgroup.com.cn
 中国·广东·广州高新技术产业开发区科学城科珠路198号
 中国·广东·广州市黄埔区开创大道1501号3栋101房
 t(86-20) 8215555
 sgs.china@sgs.com

TEST REPORT

No. : GZMR230802364401-2

Date : Dec 22, 2023

Page: 13 of 14

7. Test Item: Charpy Unnotched Impact Strength

Sample Description: Bar

Test Method: ISO 179-1:2023

Test Condition:

Specimen: ISO 179-1/1eU

Specimen thickness: 4.14mm

The capacity of the pendulum: 1J

Impact speed: 2.9m/s

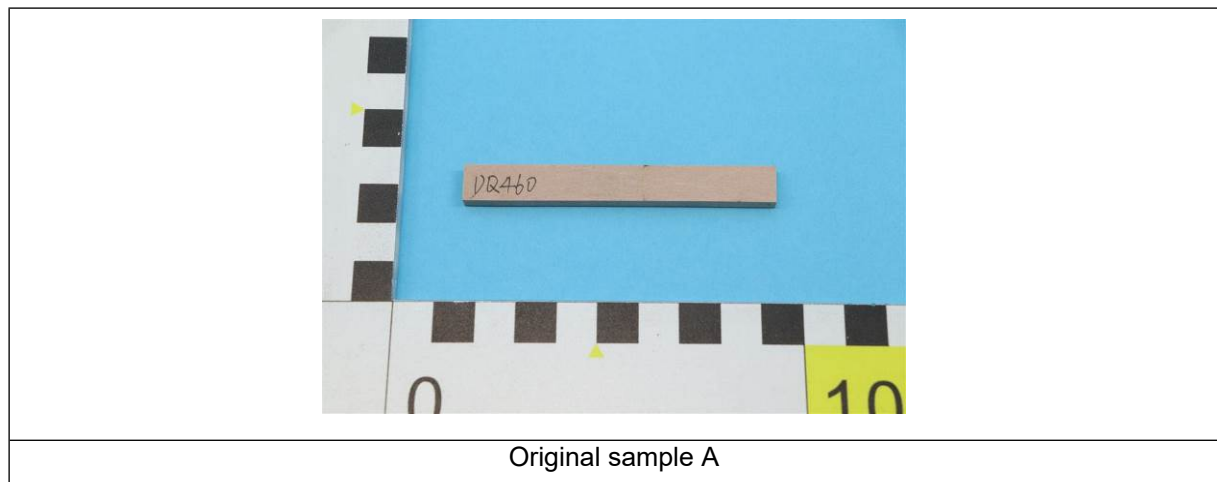
Span: 62mm

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

Test Result:

Test Item	Test Result
Charpy Notched Impact Strength	6.4kJ/m ² C (complete break)

Test Photo:



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

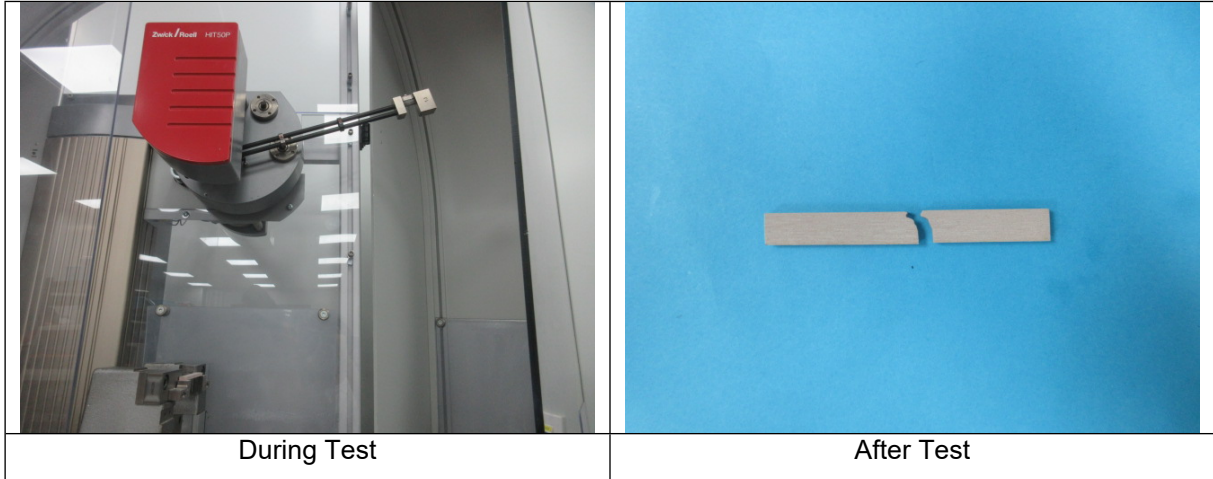
No.198, Kechu Road, Science City Economic & Technology Development Area, Guangzhou, Guangdong, China
 Room 101, Building 3, No.15011, Kaichuang Avenue, Huangpu District, Guangzhou, China
 t:(86-20) 8215555 www.sgs.com.cn
 中国·广东·广州高新技术产业开发区科学城科珠路198号 中国·广东·广州市黄埔区开创大道1501号3栋101房 t:(86-20) 8215555 sgs.china@sgs.com

TEST REPORT

No. : GZMR230802364401-2

Date : Dec 22, 2023

Page: 14 of 14



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Impact Tester	HIT50P	GZMR-PL-E283	2023-06-26	2024-06-25

Appendix information:

1. This test report supersedes test report No. GZMR230802364401 and GZMR230802364401-1, the original test report is void.
2. This report updates material and mark and SGS REF. NO..
3. This report updates summary of result.

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.198, Kaifu Road, Science City Economic & Technology Development Area, Guangzhou, Guangdong, China Room 101, Building 3, No.1501, Kaichuang Avenue, Huangpu District, Guangzhou, China (86-20) 8215555 www.sgs.com.cn
 中国·广东·广州高新技术产业开发区科学城科珠路198号 中国·广东·广州市黄埔区开创大道1501号3栋101房 (86-20) 8215555 sgs.china@sgs.com