

TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 1 of 19



CUSTOMER NAME: Coi Rubber Products, Inc.
ADDRESS: NO.3, LIANYI ROAD, PORT INDUSTRIAL PART, NINGGUO
ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, ANHUI
PROVINCE, 242310 CHINA

Sample Name : 31340/10514-12H

Product Specification : QE601654

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.

Date of Receipt : 2024-07-12

Testing Period : 2024-07-12 ~ 2024-07-25

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 Ningbo Branch.

Elena Tao

Elena Tao
Authorized signatory



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TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 2 of 19

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Brittleness Temperature by Impact	ASTM D2137-11(2018) Method C	Number of specimen failures: 0	/
2	Tear Strength	ASTM D624-00(2020)	53.4kN/m	/
3	Shore Hardness	ASTM D471-16a(2021) & ASTM D2240-15(2021)	See result	/
4	Tensile Test	ASTM D471-16a(2021) & ASTM D412-16(2021) Method A	See result	/
5	Effect of Liquids	ASTM D471-16a(2021)	See result	/
6	Compression Set Under Constant Deflection in Air	ASTM D395-18 Method B	18%	/
7	Density	ASTM D297-21 Section 16.3	1.162 Mg/m ³	/
8	Heat Ageing Test	Provided by client	No cracks	/

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



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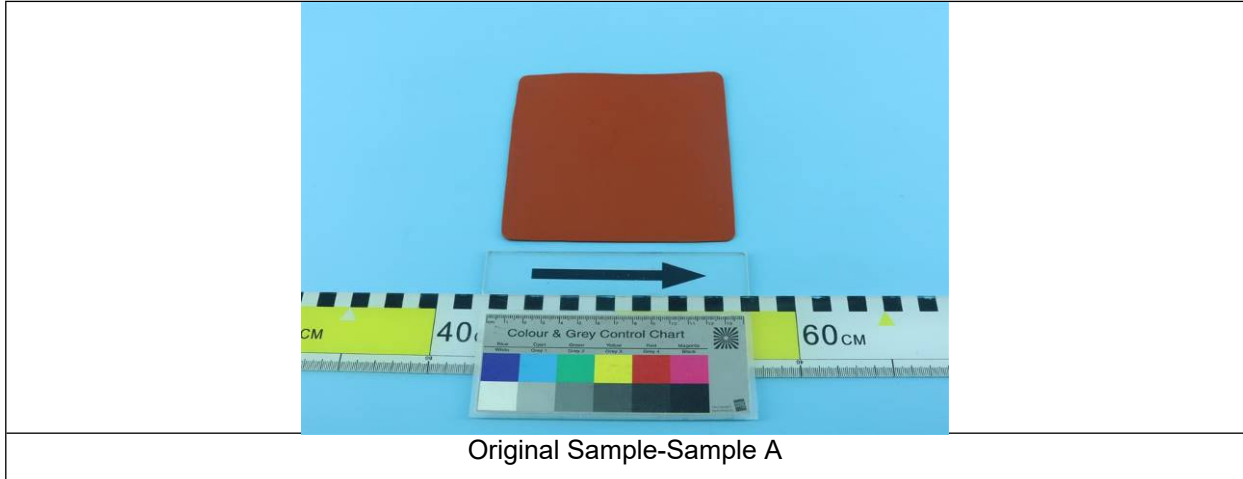
TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 3 of 19

Original Sample Photo:



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TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 4 of 19

1. Test Item: Brittleness Temperature by Impact

Sample Description: Rubber part

Test Method: ASTM D2137-11(2018) Method C

Test Condition:

Specimen: Type A

Specimen thickness: 2.1mm

Immersion condition: Absolute alcohol, 3min

Test temperature: -65°C

Number of specimens tested: 5

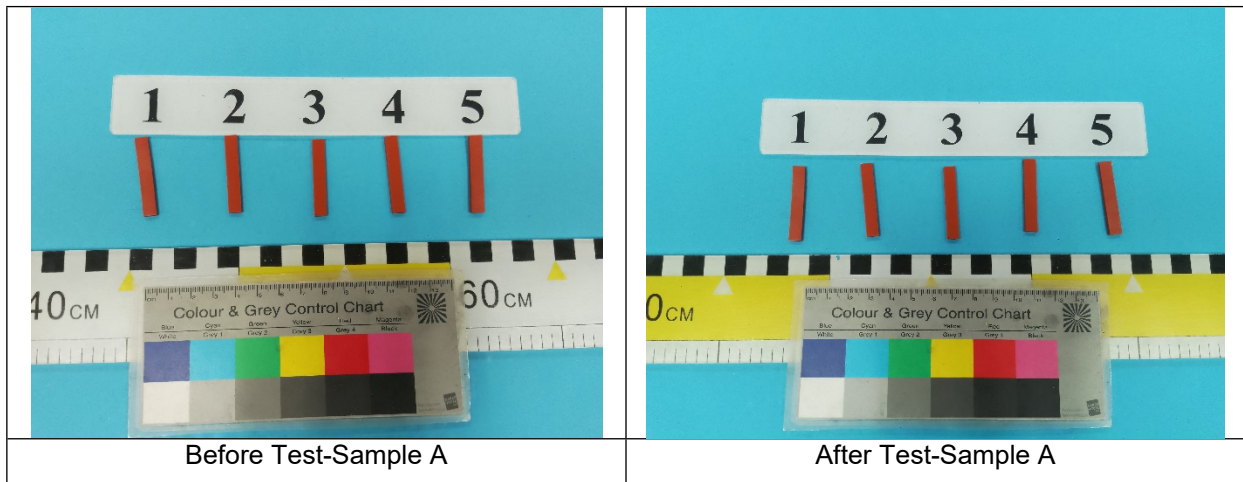
Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Brittleness Temperature by Impact	Number of specimen failures: 0

Note: Test specimens were cut from the sample.

Test Photo:



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TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 5 of 19

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Impact Tester for Low Temperature Brittleness of Plastics	BC-Z	GZMR-PL-E164	2024-01-18	2025-01-17



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TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 6 of 19

2. Test Item: Tear Strength

Sample Description: Rubber part

Test Method: ASTM D624-00(2020)

Test Condition:

Specimen: Type B

Specimen thickness:2.13mm

Testing speed: 500mm/min

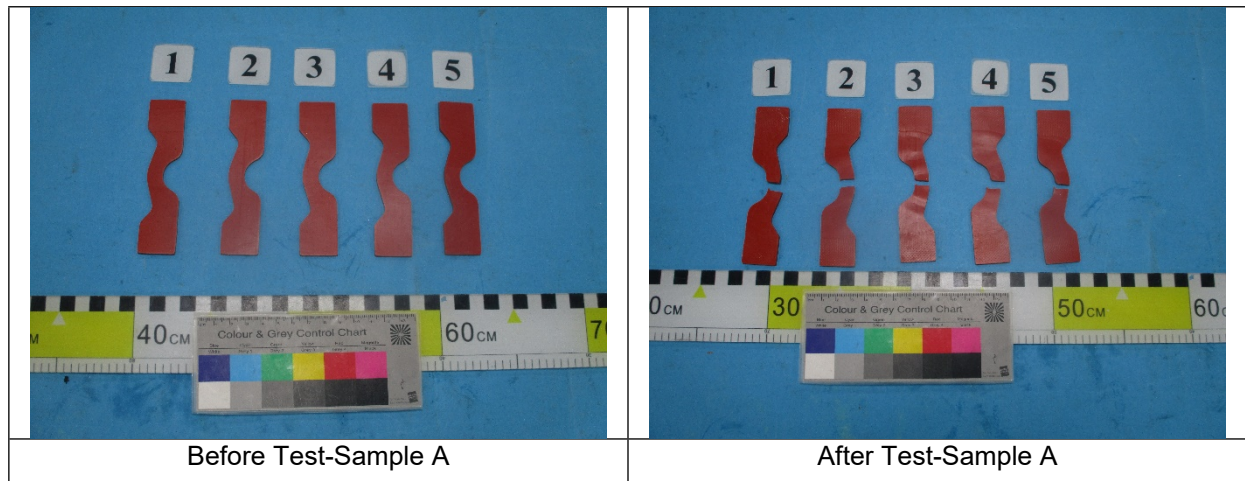
Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Tear Strength	53.4kN/m

Note: Test specimens were cut from the sample.

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	CMT6103	GZMR-PL-E022	2024-04-16	2025-04-15



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TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 7 of 19

3. Test Item: Shore Hardness

Sample Description: Rubber part

Test Method: ASTM D471-16a(2021) & ASTM D2240-15(2021)

Test Condition:

As received condition: $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\% \text{RH}$, 48h

Heat Ageing condition: 225°C , 70h \rightarrow $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\% \text{RH}$, 24h

Immersion condition: IRM 901 oil, 150°C , 70h \rightarrow Fresh IRM 901 oil, 23°C , 30min

Specimen thickness: 6.13mm (3 layers plied up)

Lab Environmental Condition: $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\% \text{RH}$

Test Result:

Test Item	Test Result	
Shore Hardness	As received	A/55/1
	After Heat Ageing	A/58/1
	Change Value	3
	After Immersion	A/50/1
	Change Value	-5

Note:

1. A/X/1 Indicates that A is the type of durometer; X is the hardness value; 1 s is the reading time.
2. Test specimens were cut from the sample.
3. Change Value= Value after ageing-Value as received

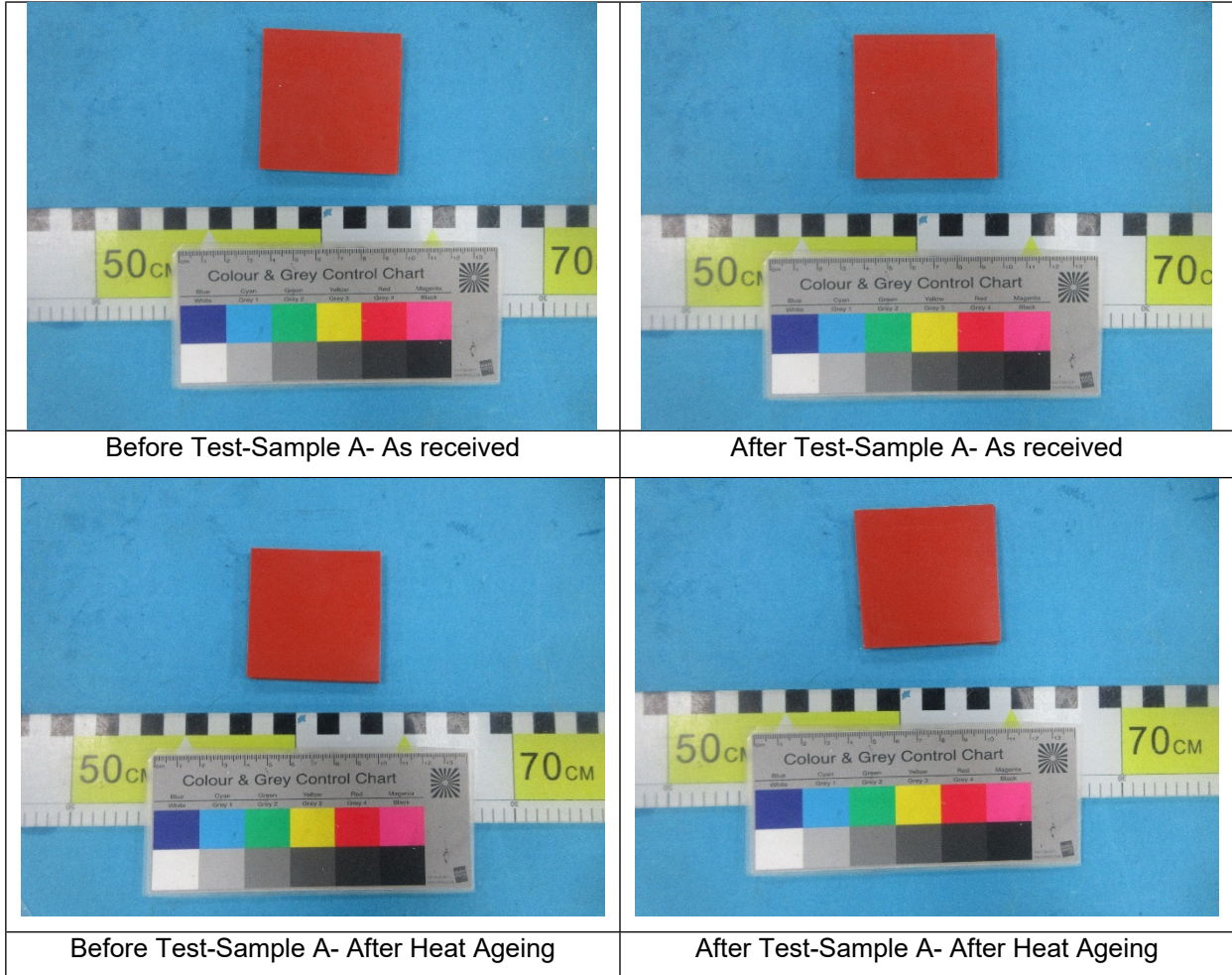
TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 8 of 19

Test Photo:



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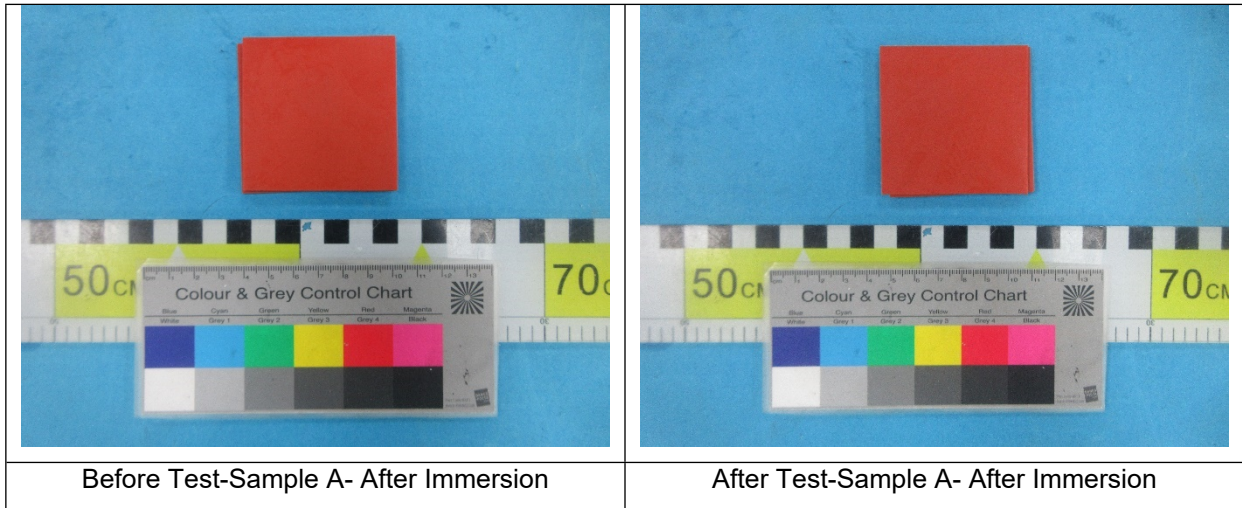
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TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 9 of 19



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Multifunction Hardness Tester	Digitest II	GZMR-PL-E156	2024-04-25	2025-04-24
Oven	UF110	GZMR-PL-E382	2024-06-21	2025-06-20
Natural Ventilation Oven	UN110	GZMR-PL-E266	2024-04-15	2025-04-14



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TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 10 of 19

4. Test Item: Tensile Test

Sample Description: Rubber part

Test Method: ASTM D471-16a(2021) & ASTM D412-16(2021) Method A

Test Condition:

As received condition: $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\% \text{RH}$, 48h

Heat Ageing condition: 225°C , 70h \rightarrow $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\% \text{RH}$, 24h

Immersion condition: IRM 901 oil, 150°C , 70h \rightarrow Fresh IRM 901 oil, 23°C , 30min

Specimen: Die C

Specimen thickness: 2.11mm

Testing speed: 500mm/min

Gauge length: 25mm

Lab Environmental Condition: $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\% \text{RH}$

Test Result:

Test Item	Test Result	
Tensile Strength	As received	10.2MPa
	After Heat Ageing	8.81MPa
	Change Rate	-13.6%
	After Immersion	9.23MPa
	Change Rate	-9.5%
Elongation at Break	As received	660%
	After Heat Ageing	480%
	Change Rate	-27.3%
	After Immersion	610%
	Change Rate	-7.6%

Note:

- Test specimens were cut from the sample.
- Change Rate, $\% = (\text{Value after ageing} - \text{Value as received}) / \text{Value as received} \times 100$



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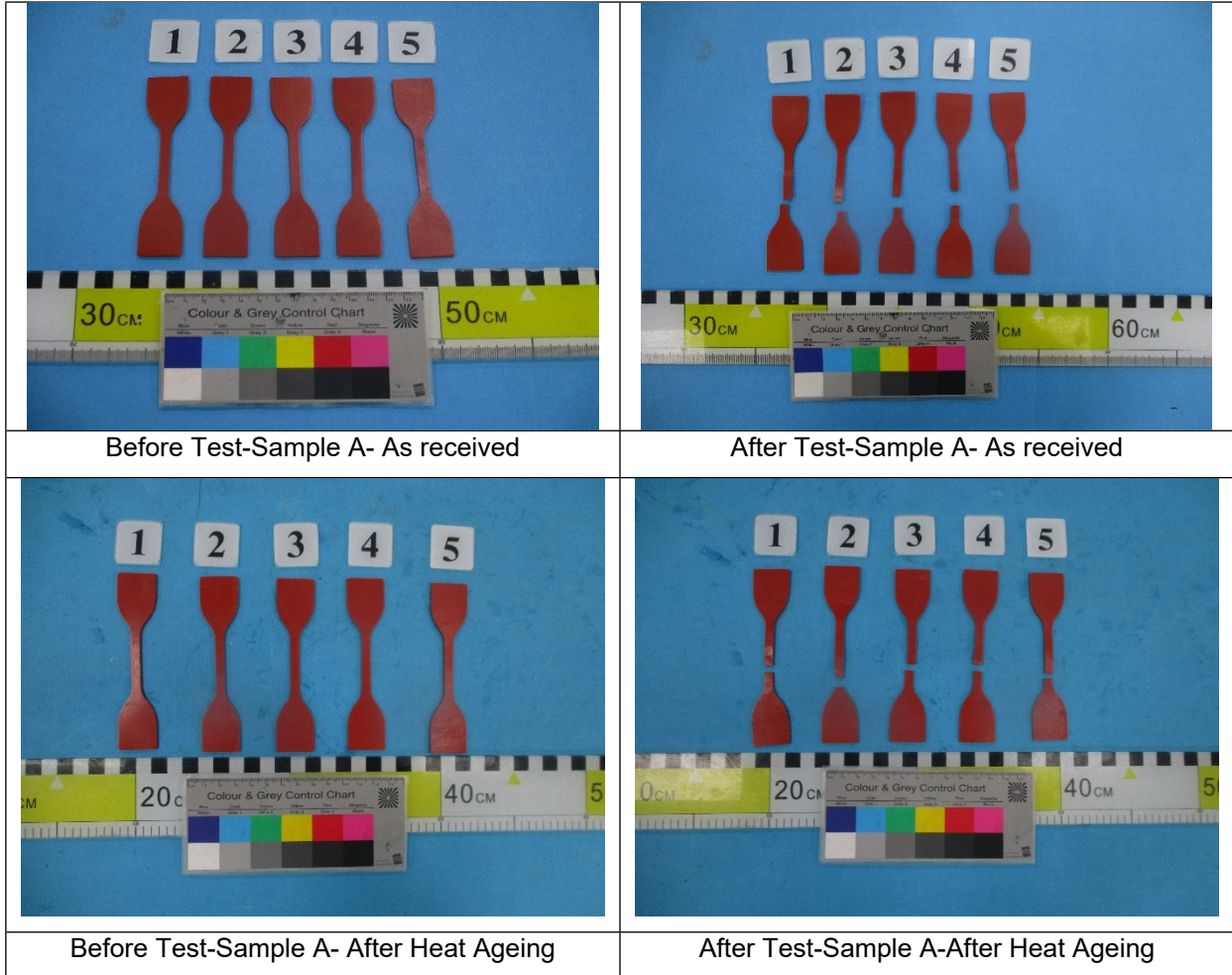
TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 11 of 19

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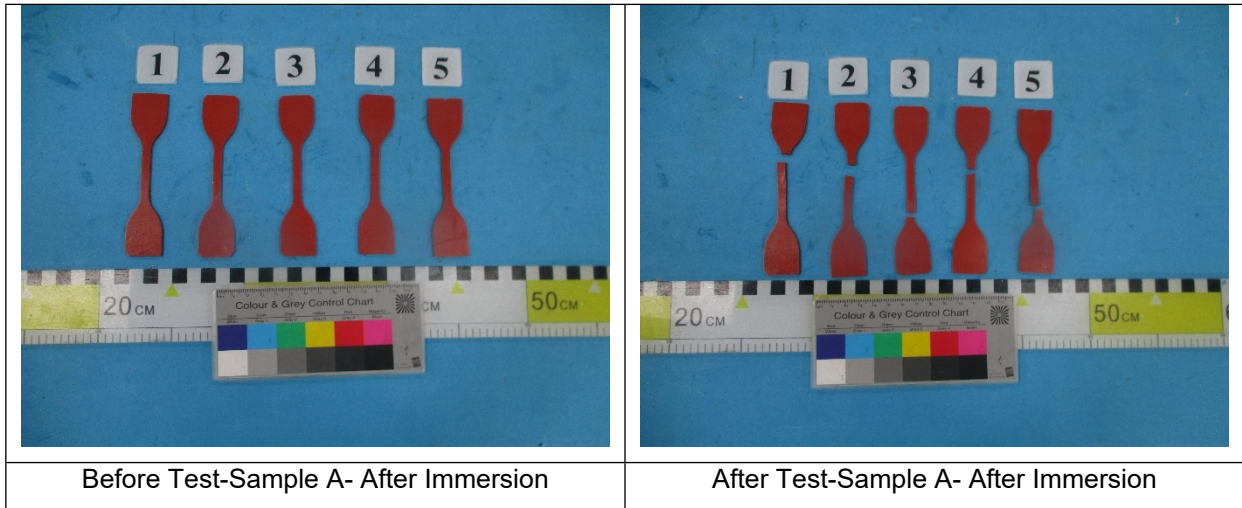


TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 12 of 19



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Oven	UF110	GZMR-PL-E382	2024-06-21	2025-06-20
Natural Ventilation Oven	UN110	GZMR-PL-E266	2024-04-15	2025-04-14
Universal Testing Machine	CMT6103	GZMR-PL-E022	2024-04-16	2025-04-15



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TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 13 of 19

5. Test Item: Effect of Liquids

Sample Description: Rubber part

Test Method: ASTM D471-16a(2021)

Test Condition:

Immersion condition: IRM 901 oil , 150°C, 70h→Fresh IRM 901 oil, 23°C, 30min

Change in Volume condition: Deionized water, (23±2)°C

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

Test Result:

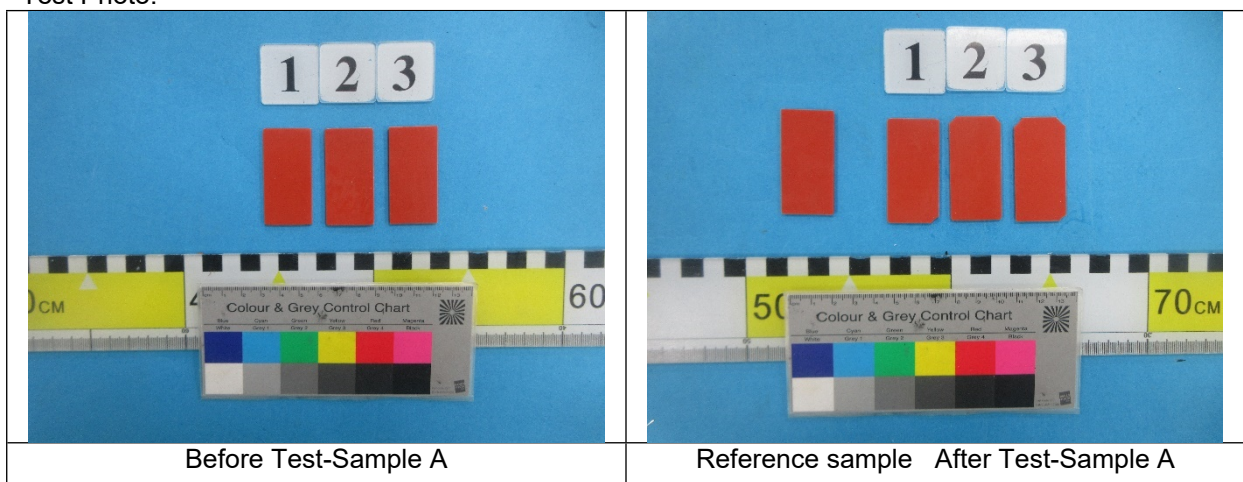
Test Item	Test Result
Appearance	No decomposition, no tackiness
Change in Volume	+5.2%

Note:

1. Change in Volume, % = (Volume after oil resistance – Volume before oil resistance)/ Volume before oil resistance×100

2. Test specimens were cut from the sample.

Test Photo:



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TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 14 of 19

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Oven	UF110	GZMR-PL-E382	2024-06-21	2025-06-20
Electron Balance	XPE204	GZMR-PL-E004-06	2024-04-15	2025-04-14



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TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 15 of 19

6. Test Item: Compression Set Under Constant Deflection in Air

Sample Description: Rubber part

Test Method: ASTM D395-18 Method B

Test Condition:

Specimen: Type 2

Specimen thickness: 6.3mm (3 layers plied up)

Test condition: 150°C, 70h

Compression rate: 25%

Recovery condition: (23±2)°C, (50±5)%RH, 30min

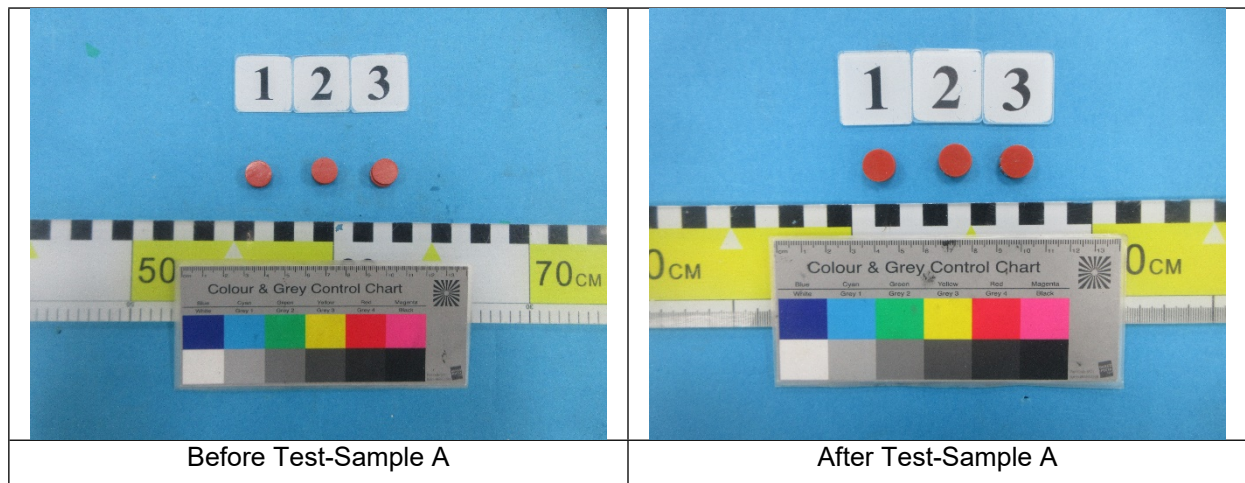
Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Compression Set	18%

Note: Test specimens were cut from the sample.

Test Photo:



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中国·浙江·宁波高新区凌云路1177号 邮编: 315040

ML (86-574) 89070283 www.sgsgroup.com.cn
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TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 16 of 19

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Oven	UF110	GZMR-PL-E232	2024-03-28	2025-03-27
Digital Thickness Gauge	TG-3130-A3	GZMR-PL-E025-04	2024-05-09	2025-05-08



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TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 17 of 19

7. Test Item: Density

Sample Description: Rubber part

Test Method: ASTM D297-21 Section 16.3

Test Condition:

Deionized water, 25 ± 2 °C

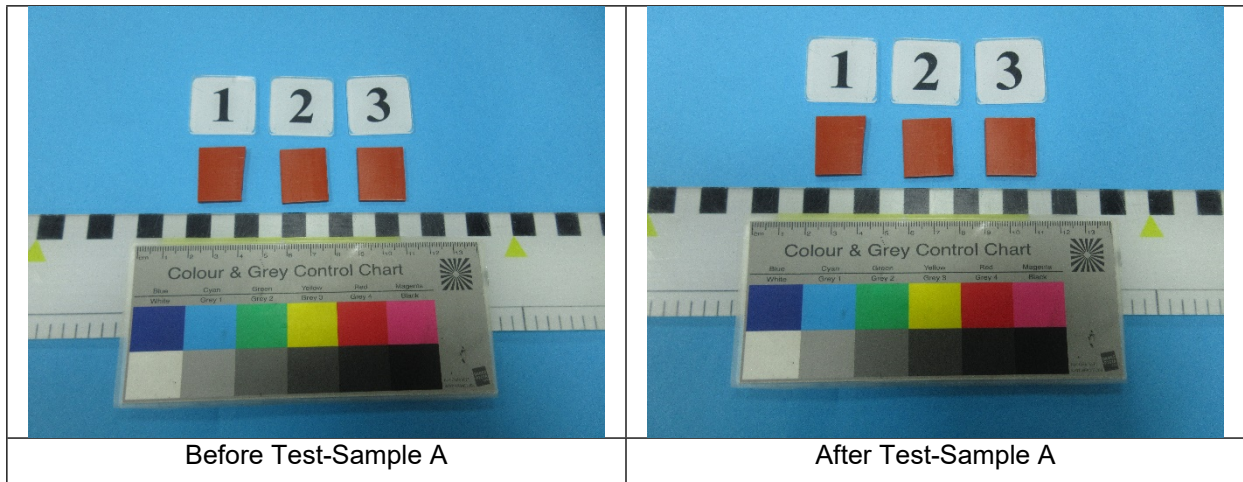
Lab Environmental Condition: 23 ± 2 °C, 50 ± 5 % RH

Test Result:

Test Item	Test Result
Density	1.162 Mg/m ³

Note: Test specimens were cut from the sample.

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Electron Balance	XPE204	GZMR-PL-E004-06	2024-04-15	2025-04-14



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TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 18 of 19

8. Test Item: Heat Ageing Test

Sample Description: Rubber part

Test Method: Provided by client

Test Condition:

Condition: 225°C, 70h→Wrap the mandrel once→Check appearance

Mandrel diameter : 9mm

Number of specimens tested: 3

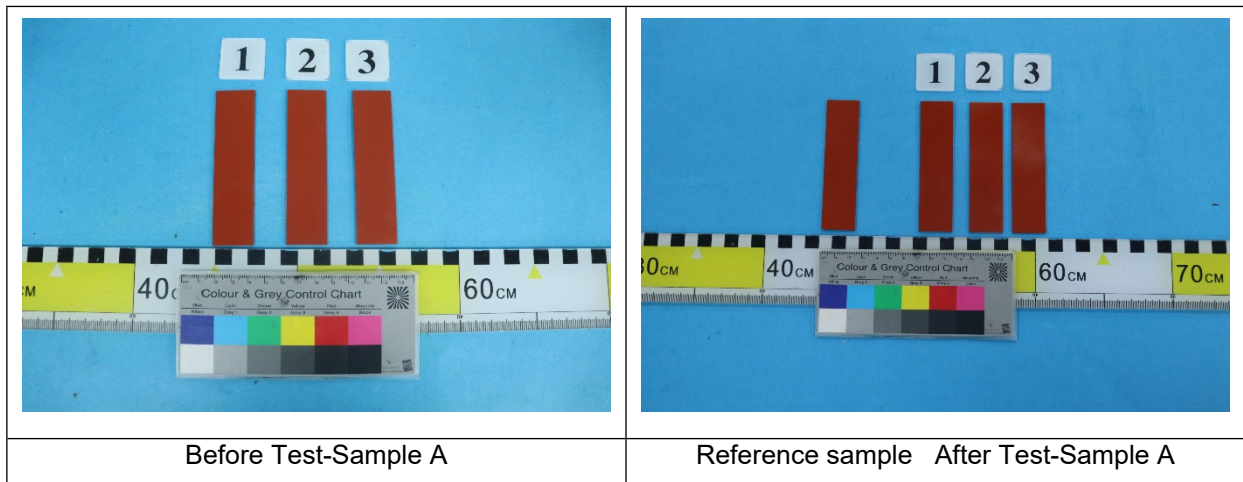
Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Appearance	No cracks

Note: Test specimens were cut from the sample.

Test Photo:



Before Test-Sample A

Reference sample After Test-Sample A

TEST REPORT

No. : NBIN2407002014PL01_EN

Date : 2024-08-21

Page: 19 of 19

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Natural Ventilation Oven	UN110	GZMR-PL-E266	2024-04-15	2025-04-14

- All above tests were carried out by other SGS laboratory.
- The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

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



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