



Test Report

No. 10587970(1)

Date: 14 Aug 2024

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TWO NINE SIX O TRADING PTE LTD
21 TUAS WEST AVENUE, SINGAPORE 638435

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

Sample Name : KM NEOPRENE RUBBER SHEET

Sample Receiving Date : 31 Jul 2024

Testing Period : 07 Aug 2024 to 14 Aug 2024

Test Requested : Please refer to next page(s).

Test Method & Result(s) : Please refer to next page(s).

Signed for and on behalf of
SGS Testing & Control Services Singapore Pte Ltd

Y C Tham (Ms)
Technical Manager, Multi-Lab

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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.

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Co. Reg. No: 199404065N GST Reg. No: MR-8500112-9

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Summary of Results:

No.	Test Item	Test Method	Result
1	Shore Hardness	ASTM D573-04(2019) & ASTM D2240-15(2021)	See result
2	Tensile Test	ASTM D573-04(2019) & ASTM D412-16(2021) Method A	See result

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1. Test Item: Shore Hardness *

Sample Description: Sheet

Test Method: ASTM D573-04(2019) & ASTM D2240-15(2021)

Test Condition:

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

Heat ageing condition: 100°C , 70h $\rightarrow$ $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\% \text{RH}$, 24h

Specimen thickness: 6.20mm

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

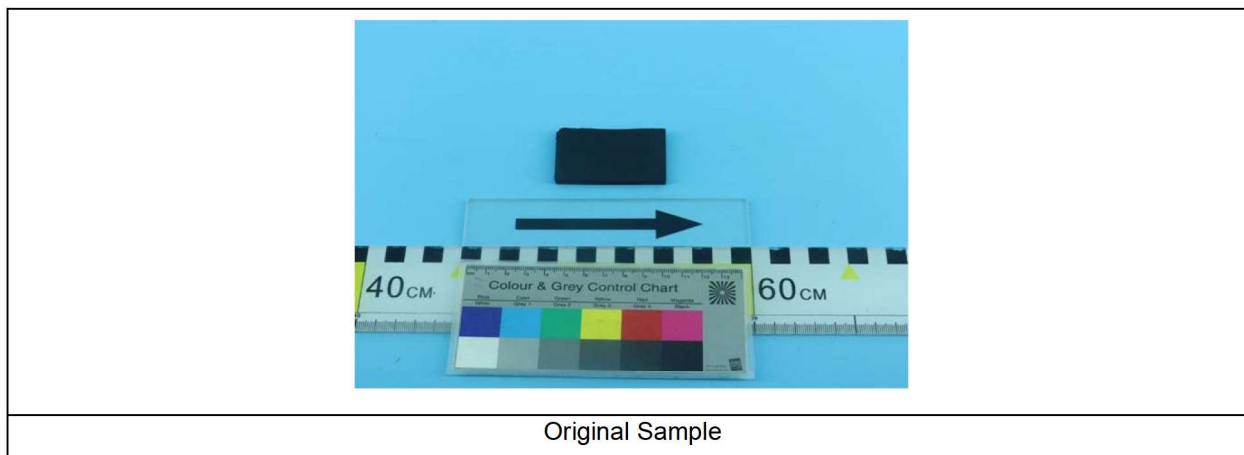
Test Result:

Test Item	Test Result	
Shore Hardness	As received	A/57/1
	After ageing	A/61/1
	Change value	+4

Note:

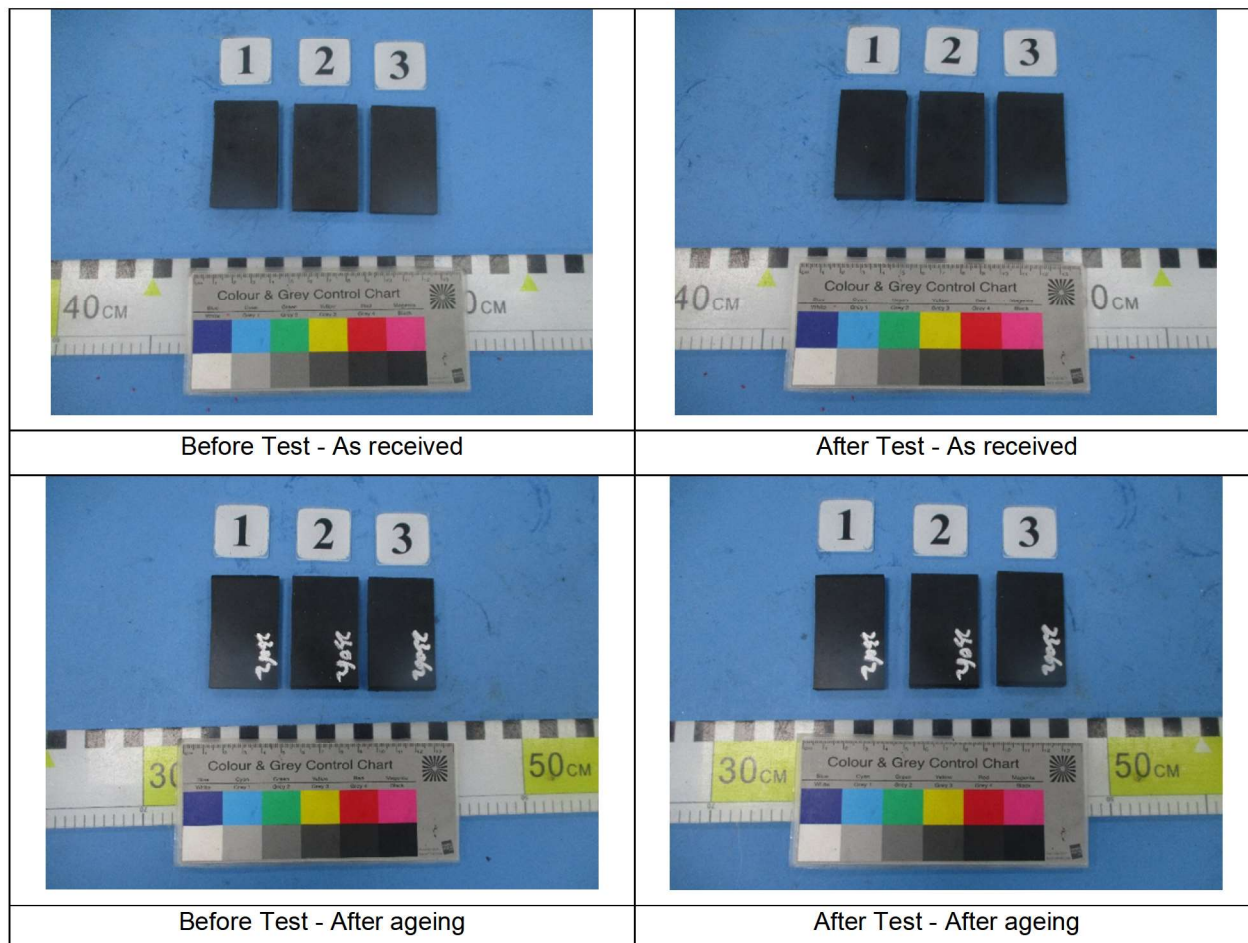
1. A/X/1 Indicates that A is the type of durometer; X is the hardness value; 1 s is the reading time.
2. Change value = Value after heat ageing - Value as received

Test Photo:



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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Oven	UF260plus	GZMR-PL-E138	2024-01-17	2025-01-16
Multifunction Hardness Tester	Digitest II	GZMR-PL-E156	2024-04-25	2025-04-24

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2. Test Item: Tensile Test *

Sample Description: Sheet

Test Method: ASTM D573-04(2019) & 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: 100°C , 70h $\rightarrow$ $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\% \text{RH}$, 24h

Specimen: Die C

Specimen thickness: 2.17mm

Testing speed: 500mm/min

Gauge length: 25mm

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

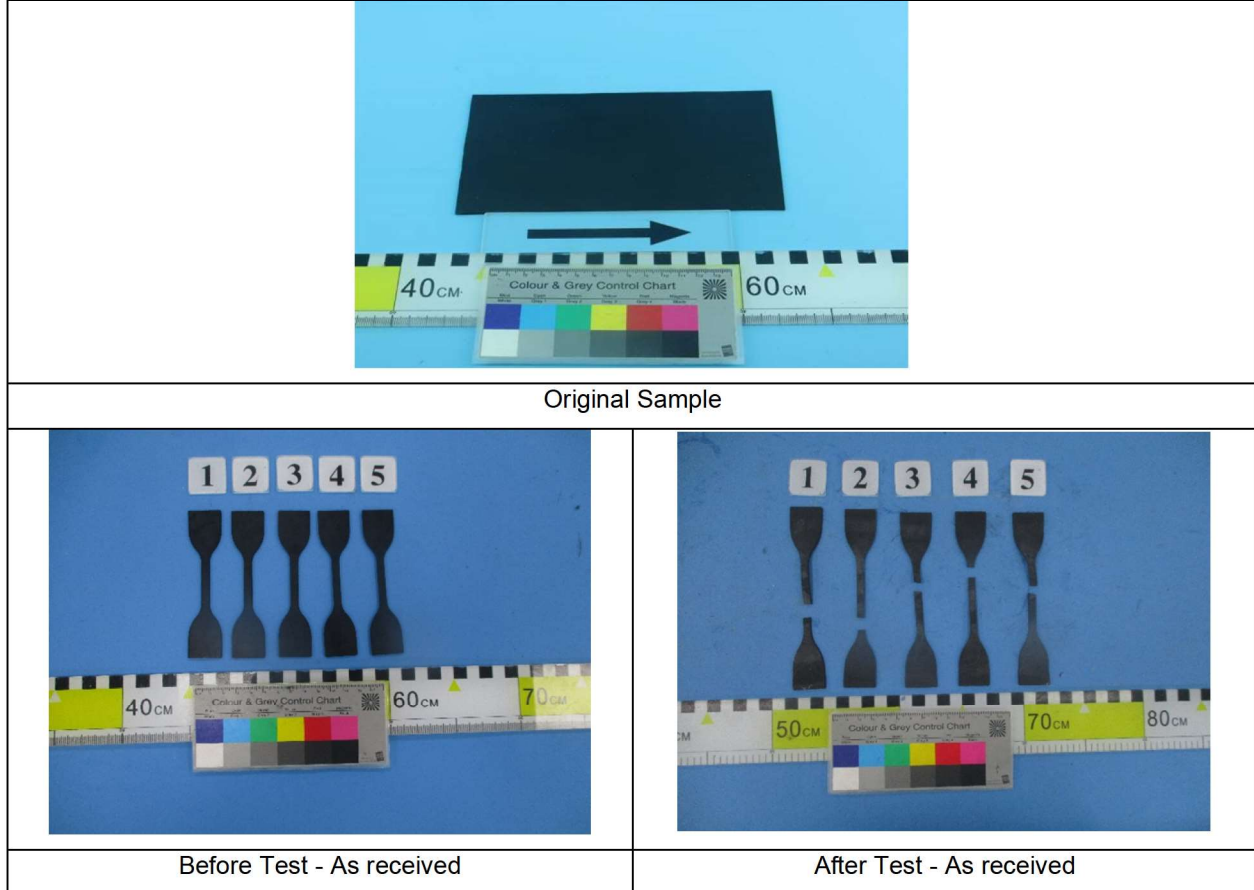
Test Item	Test Result	
Tensile Strength	As received	6.85MPa
	After heat ageing	6.99MPa
	Change rate	2.0%
Elongation at Break	As received	500%
	After heat ageing	470%
	Change rate	-6.0%

Note:

1. Test specimens were cut from the sample.

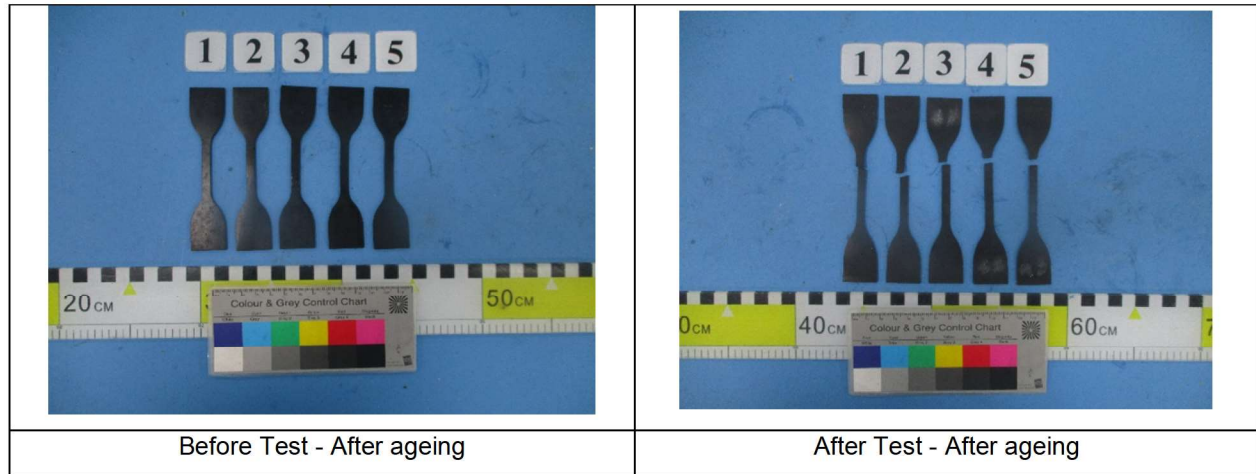
2. Change rate, % = $(\text{Value after heat ageing} - \text{Value as received}) / \text{Value as received} \times 100$

Test Photo:



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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Oven	UF260plus	GZMR-PL-E138	2024-01-17	2025-01-16
Universal Testing Machine	CMT6103	GZMR-PL-E022	2024-04-16	2025-04-15

*** Tested by an SGS Lab (ref. GZIN2408002910PL01_EN)**

End of Report

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