



## TEST REPORT

No. : GZIN1501002317MR

Date : Mar 04, 2015

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CUSTOMER NAME: SUZHOU VOLSUN ELECTRONICS TECHNOLOGY CO., LTD.  
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The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : EPDM COLD SHRINK TUBE  
SGS Ref. No. : SUZPL150100070  
Date of Receipt : Jan 16, 2015  
Testing Start Date : Jan 16, 2015  
Testing End Date : Mar 04, 2015  
Test result(s) : For further details, please refer to the following page(s)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd. GZ Branch Testing  
Center

Fiona Lau

Authorized signatory

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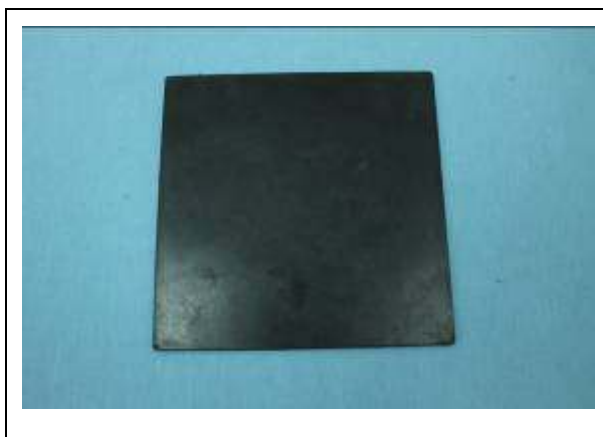
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### Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Light Ageing Test-UV Exposure	ASTM G154-12a Cycle1 & ISO 105-A02: 1993/Cor. 2: 2005	See results	/
2	Tensile Test	ASTM D412-06a(2013) Method A	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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### 1. Test Item: Light Ageing Test-UV Exposure

Sample Description: Rubber

Test Method: ASTM G154-12a Cycle1 & ISO 105-A02: 1993/Cor. 2: 2005

Test Condition:

Exposure cycle:

ASTM G154-12a cycle 1

Lamp type: UVA-340

8h UV at  $(60 \pm 3)^{\circ}\text{C}$  BPT,  $0.89\text{W}/(\text{m}^2 \cdot \text{nm})@340\text{nm}$

4h condensation at  $(50 \pm 3)^{\circ}\text{C}$  BPT

Exposure duration: 1000h

Test Result:

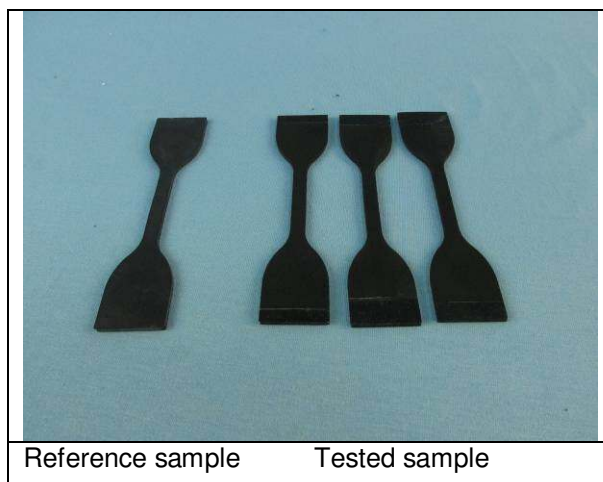
Test Item	Appearance	Grey scale
Light Ageing Test-UV Exposure	Visible discoloring	3

Note:

1. According to ISO 105-A02:1993/Cor.2:2005, the grey scale was determined under the D65 standard light, with scale 5 as the best and scale 1 as the worst.

2. Test specimens were cut from the sample.

Test Photo:



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### 2. Test Item: Tensile Test

Sample Description: Rubber

Test Method: ASTM D412-06a (2013) Method A

Test Condition:

As received condition:  $23 \pm 2$  °C,  $50 \pm 5$  % RH, 48 h

Light ageing condition: UV Exposure (See test item 1) →  $23 \pm 2$  °C,  $50 \pm 5$  % RH, 16 h

Specimen: Die C

Specimen thickness: 2.08 mm

Testing speed: 500 mm/min

Gauge length: 25 mm

Lab Environmental Condition:  $23 \pm 2$  °C,  $50 \pm 5$  % RH

Test Result:

Test Item	Test Result	
Tensile Strength	As received	9.42 MPa
	After light ageing	9.07 MPa
	Retention rate	96.3 %
Elongation at Break	As received	670 %
	After light ageing	490 %
	Retention rate	73.1 %

Note:

1. Retention rate, % = Value after light ageing / Value as received × 100

2. Test specimens were cut from the sample.

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

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