

## TEST REPORT

No. : XMIN1911008102PS

Date : Nov 20, 2019

Page: 1 of 8



CUSTOMER NAME: XIAMEN MEGAN SOLAR CO., LTD  
ADDRESS: NO.999, AN LING ROAD, HULI DISTRICT, XIAMEN CITY 361009,  
CHINA

Sample Name : RUBBER GASKET

Other Information : MG-CU-RG

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. : GZIN1911061144MR  
Date of Receipt : Nov 08, 2019  
Testing Start Date : Nov 08, 2019  
Testing End Date : Nov 20, 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 Xiamen Branch  
Testing Center



Jude Zhao  
Authorized signatory



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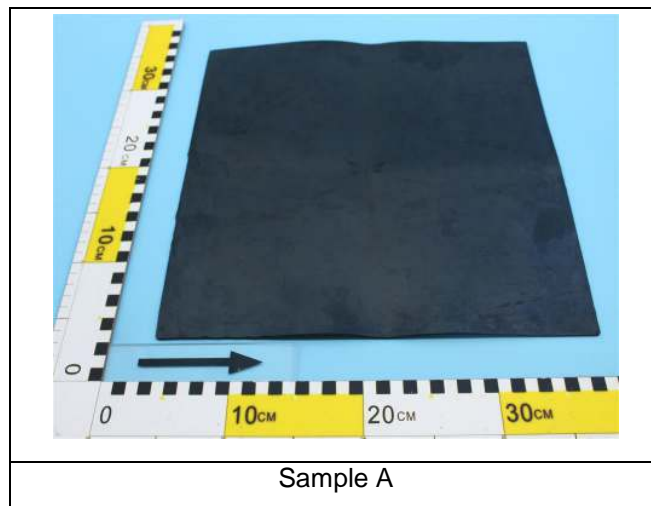
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Summary of Results:

No.	Test Item	Test Method	Result
1	Tensile Test	GB/T 7141-2008 & GB/T 528-2009	See result
2	Major Composition Qualitative Analysis	GB/T 7764-2017	Ethylene-propylene- diene monomer (EPDM)

Original Sample Photo:



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1. Test Item: Tensile Test

Sample Description: Rubber part

Test Method: GB/T 7141-2008 & GB/T 528-2009

Test Condition:

As received condition: (23±2)°C, (50±5)%RH, 24h

Heat ageing condition: 100°C, 70h→(23±2)°C, (50±5)%RH, 24h

Specimen: Type 1

Specimen thickness: 2.34mm

Testing speed: 500mm/min

Gauge length: 25mm

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

Test Result:

Test Item	Test Result	
Tensile Strength	As received	13.1MPa
	After aging	13.1MPa
	Change rate	0%
Elongation at Break	As received	410%
	After aging	210%
	Change rate	-48.8%



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Original data:

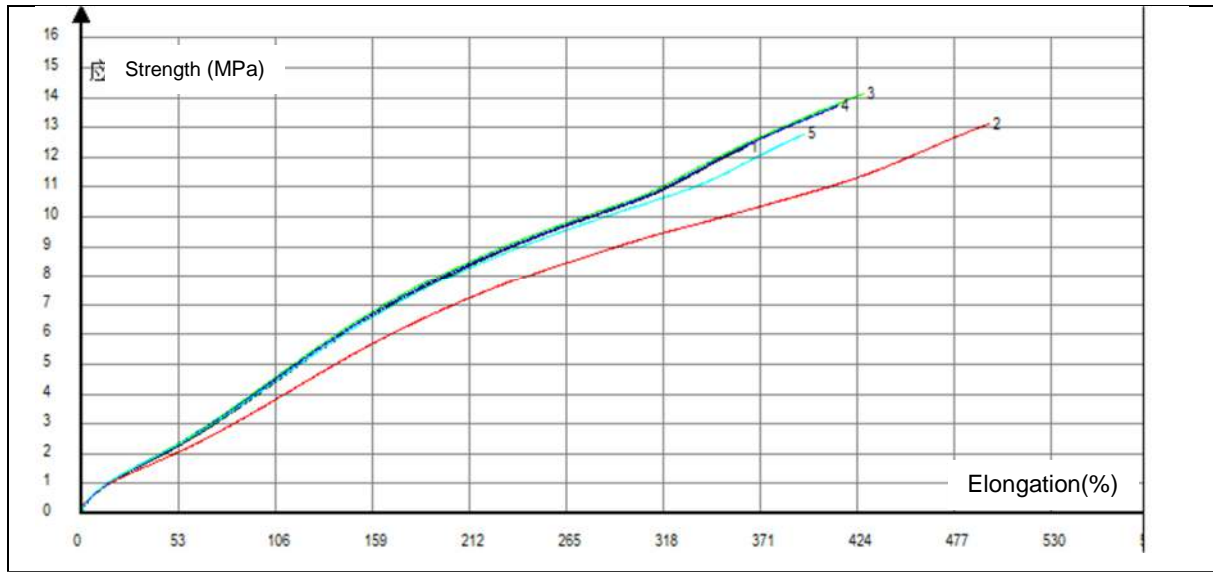
Specimen		#1	#2	#3	#4	#5
Tensile Strength, MPa	As received	12.36	13.12	14.14	13.73	12.78
	After aging	13.55	13.37	13.13	12.81	12.55
Elongation at Break, %	As received	364	496	428	414	396
	After aging	209	215	209	191	184

Note:

1. Change rate, % = (Value after aging - Value as received)/ Value as received x100
2. Test specimens were cut from the sample.

Curve:

As received:



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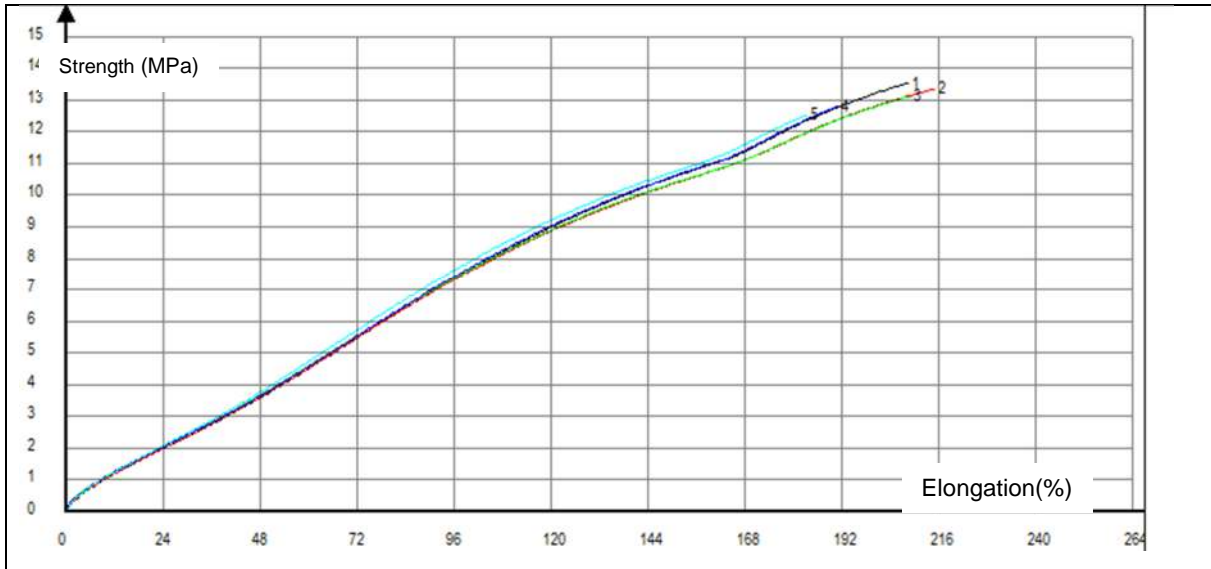
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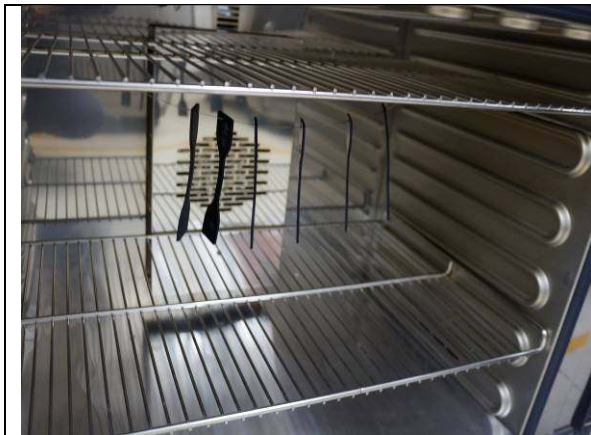
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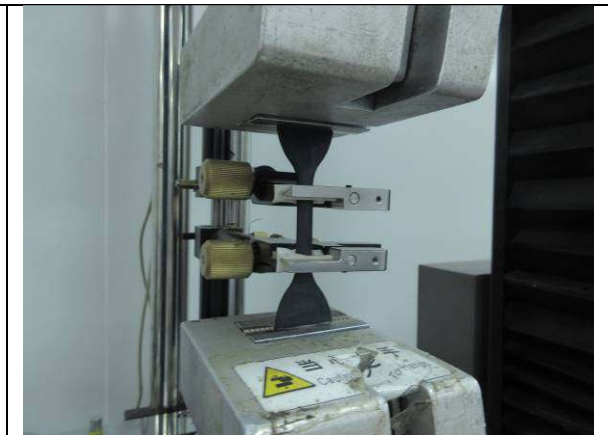
After aging:



Test Photo:



During test- Heat ageing



During test- Tensile



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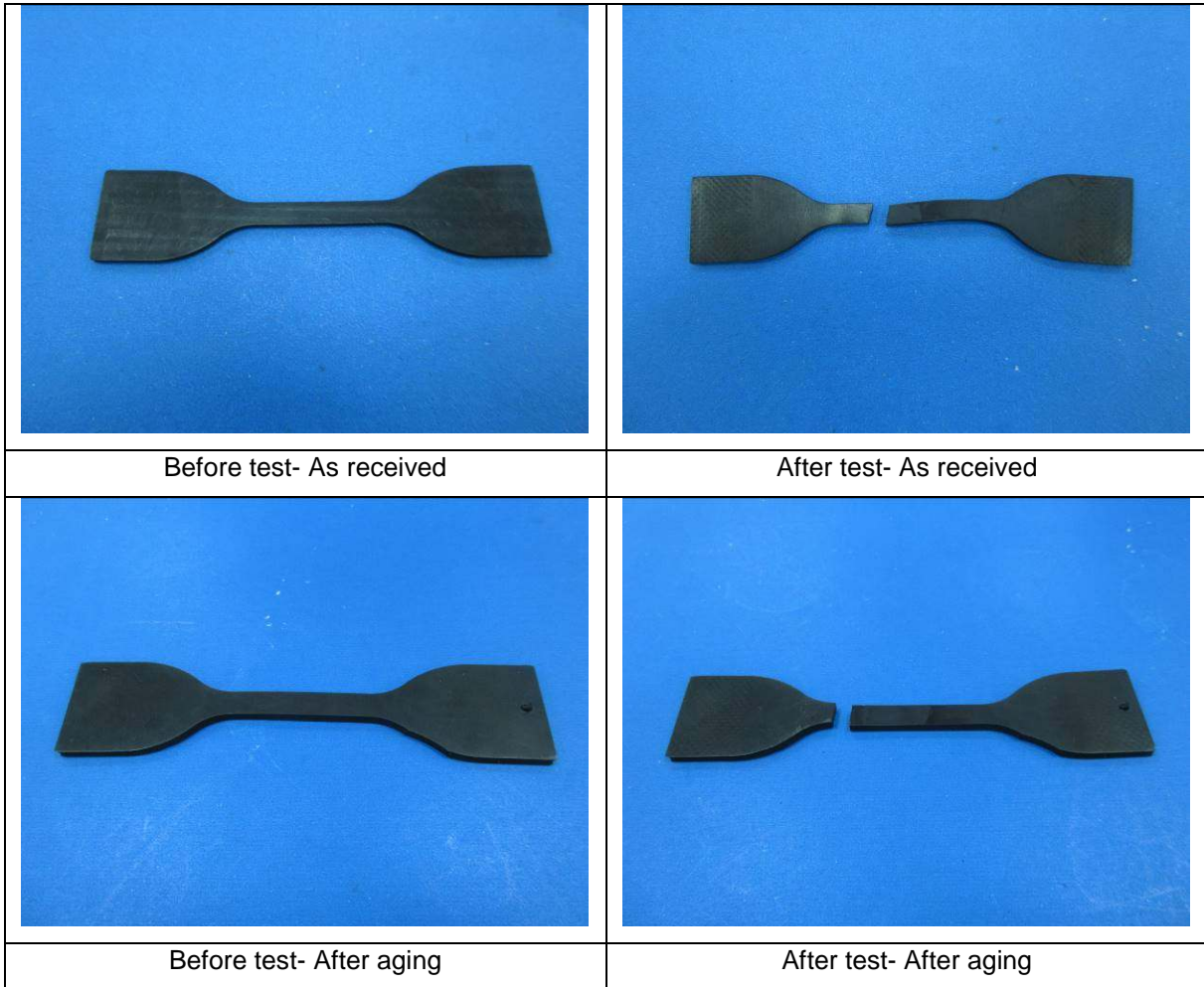
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Oven	UF110	GZMR-PL-E294	2019-05-29	2020-05-28
Universal Testing Machine	CMT6103	GZMR-PL-E022	2019-09-04	2020-09-03



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2.Test Item: Major Composition Qualitative Analysis

Sample Description: Rubber part

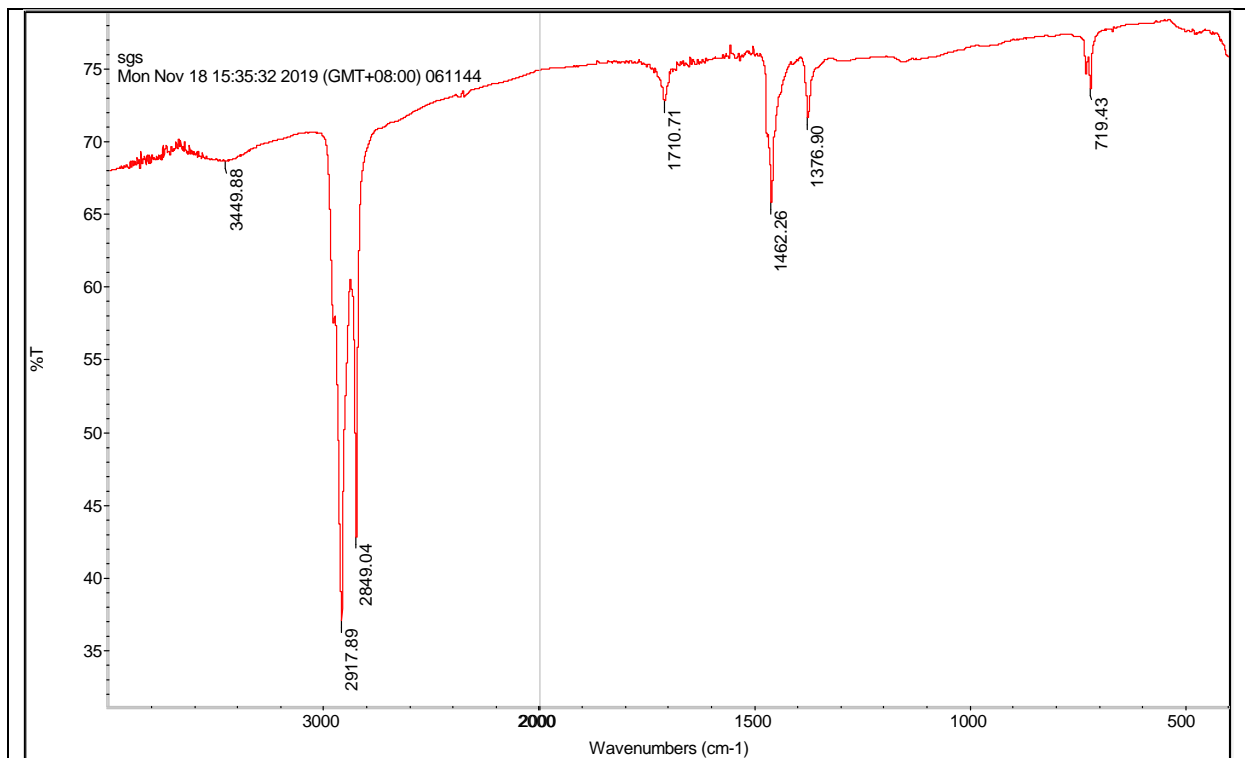
Test Method: GB/T 7764-2017, analysis was performed by FTIR.

Sample Technique: Mild thermal degradation for films

Test Result:

Sample	Major composition
A	Ethylene-propylene-diene monomer (EPDM) (FTIR spectrum see Fig.1)

Fig.1



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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
FTIR	NICOLET 5700	GZMR-PL-E028	2019-08-15	2020-08-14
Heating Oven	FED 53 E2	GZMR-PL-E103	2019-07-16	2020-07-15

Note: The above test was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.  
 \*\*\*\*\* End of report\*\*\*\*\*



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