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关注谱尼测试

TEST REPORT

Applicant: Sanmen County Yongfu Machine CO.,LTD
Address: Sanmen County Jiantiao township Datang (industrial park)

The following information about the test sample is provided by entrusting company confirmed

Sample Name: PU rubber
Applicable Product Model: YJ-PW-001/YJ-PW-002/ YJ-PW-003/ YJ-PW-004/ YJ-PW-005
Sample Source: Send sample
Sample Received Date: 2020-06-28
Test Period: 2020-07-07~2020-07-15
Test Item: See next page
Test Method: See next page
Test Result: See next page

DECLARATIONS:

The test(s) shown in the attachment were conducted according to the indicating procedures.
We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all personnel performing them.

Edited by: Yang Jieting
Yang Jieting

Checked by: He Liping
He Liping

Approved by: Deng Dejun
Deng Dejun

Issued Date: 2020-07-16

Code: aqm53n



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Summary

No.	Test item	Test method	Test result	Conclusion
1	Abrasion	According to GB/T 9867-2008 and the applicant's requirement	1221mm ³	/
2	Resilience	According to GB/T 1681-2009 and the applicant's requirement	23%	/
3	Shore A hardness	According to GB/T 531.1-2008 and the applicant's requirement	60HA	/
4	Tensile strength	According to GB/T 528-2009 and the applicant's requirement	4.20MPa	/
	Elongation at break		210%	
5	Tear strength	According to GB/T 529-2008 and the applicant's requirement	6.23kN/m	/
6	Change of hardness after hot air aging	According to GB/T 531.1-2008, GB/T 3512-2014 and the applicant's requirement	+7HA	/
7	Change rate of tensile strength after hot air aging	According to GB/T 528-2009, GB/T 3512-2014 and the applicant's requirement	+9.3%	/
	Change rate of elongation at break after hot air aging		+27.3%	/
8	Ozone aging resistance	According to GB/T 7762-2014 and the applicant's requirement	No crack	/
9	Flammability	According to GB 8410-2006 and the applicant's requirement	A-0mm/min	/
10	Compression set	According to GB/T 7759.1-2015 and the applicant's requirement	98%	/
11	Brittleness temperature	According to GB/T 15256-2014 and the applicant's requirement	The brittleness temperature is -15°C	/

Note: Comply: Meet the requirements; Not comply: Does not meet the requirements;
/: Not Apply to the judgment.



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Original sample

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1.Test item: Abrasion

Test quantity: 3

Test method: According to GB/T 9867-2008 and the applicant's requirement

Test condition: Roller speed of abrader: 40 r/min \pm 1 r/min

Test result:

Sample No.	Test result
P46643712	1221mm ³

Test photos:



Equipment Information:

Equipment	Equipment Model	Validity Date
Rotary drum type abrasion machine	DH114	2021-07-06

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2.Test item: Resilience

Test quantity: 3

Test method: According to GB/T 1681-2009 and the applicant's requirement

Test condition: /

Test result:

Sample No.	Test result
P46643712	23%

Test photos:



Equipment Information:

Equipment	Equipment Model	Validity Date
Resilience testing machine	MZ-4065	2020-11-27

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3.Test item: Shore A hardness

Test quantity: 3(5 points)

Test method: According to GB/T 531.1-2008 and the applicant's requirement

Test condition: Method shore A, Sample size: (50×50×7.8) mm, Three pieces superposition

Test result:

Sample No.	Test result
P46643712	60HA

Test photos:



Equipment Information:

Equipment	Equipment Manufacturer	Equipment Model	Equipment No.	Validity Date
Shore rubber hardness tester	BAREISS	BS09	IE159-01	2021-04-21

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4. Test item: Tensile strength, Elongation at break

Test quantity: 5

Test method: According to GB/T 528-2009 and the applicant's requirement

Test condition: Sample size: Type 1, Test speed: 500mm/min

Test result:

Sample No.	Test items	Test result
P46643712	Tensile strength	4.20MPa
	Elongation at break	210%

Test photos:



Equipment Information:

Equipment	Equipment Manufacturer	Equipment Model	Equipment No.	Validity Date
Tensile machine	ZWICK	BT2-FZ2.5TH.D16.001	IE315-04	2021-04-21

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5. Test item: Tear strength

Test quantity: 5

Test method: According to GB/T 529-2008 and the applicant's requirement

Test condition: Sample size: Trousers shape, Test speed: 100mm/min

Test result:

Sample No.	Test result
P46643712	6.23kN/m

Test photos:



Equipment Information:

Equipment	Equipment Manufacturer	Equipment Model	Equipment No.	Validity Date
Tensile machine	ZWICK	BT2-FZ2.5TH.D16.001	IE315-04	2021-04-21

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6.Test item: Change of hardness after hot air aging

Test quantity: 3(5 points)

Test method: According to GB/T 531.1-2008, GB/T 3512-2014 and the applicant's requirement

Test condition: Treatment condition: 100℃×70h, Method shore A, Sample size: (50×50×7.8) mm,
Three pieces superposition

Test result:

Sample No.	Test result
P46643712	+7HA

Test photos:



Equipment Information:

Equipment	Equipment Manufacturer	Equipment Model	Equipment No.	Validity Date
Shore rubber hardness tester	BAREISS	BS09	IE159-01	2021-04-21
Air dry oven	FM	DGX-9143BC-1	IE015-33	2021-01-01

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7. Test item: Change rate of tensile strength after hot air aging, Change rate of elongation at break after hot air aging

Test quantity: 5

Test method: According to GB/T 528-2009, GB/T 3512-2014 and the applicant's requirement

Test condition: Treatment condition: 100°C×70h, Sample size: Type 1, Test speed: 500mm/min

Test result:

Sample No.	Test items	Test result
P46643712	Change rate of tensile strength after hot air aging	+9.3%
	Change rate of elongation at break after hot air aging	+27.3%

Test photos:



Equipment Information:

Equipment	Equipment Manufacturer	Equipment Model	Equipment No.	Validity Date
Tensile machine	ZWICK	BT2-FZ2.5TH.D16.001	IE315-04	2021-04-21
Air dry oven	FM	DGX-9143BC-1	IE015-33	2021-01-01

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8.Test item: Ozone aging resistance

Test quantity: 3

Test method: According to GB/T 7762-2014 and the applicant's requirement

Test condition: Sample size: (100×10×2) mm, Test temperature: 40℃, Ozone concentration: 200pphm

Test time: 70h, Elongation: 20%

Test result:

Sample No.	Test result
P46643712	No crack

Test photos:



Equipment Information:

Equipment	Equipment Manufacturer	Equipment Model	Equipment No.	Validity Date
Ozone resistance tester	GOTECH	OZ-0500	IE316	2020-12-17

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9. Test item: Flammability

Test quantity: 5

Test method: According to GB 8410-2006 and the applicant's requirement

Test condition:

(1) Condition:

The test specimen shall be conditioned for a minimum of 24 hours but not more than 168h at 23±2°C and 50±5%RH prior to test and tested under the same conditions.

(2) Test Method:

(2.1) The standard specifications: (356 * 100 * thickness) mm, thickness is not more than 13 mm, if the sample is bend and unable to be level off, high arch is the thickness; To samples which cannot be sampled as the standard specimen, the minimum sample size is (356 * 3-60 * thickness), (138 * 60-100 * thickness) mm.

(2.2) Measure the time that it takes the flame to progress from first measuring point (38 mm from the U-shaped frame end of the specimen) to second measuring point (254 mm from first line). If the flame does not burn to the second mark, record the stop position and time. Calculate the burning speed according to the formula and judge the result.

(2.3) Select the maximum burning rate of all the samples as test result.

(3) Calculation:

$$V=60 \times (L/T)$$

Where V: Burning rate (mm/min)

L: Length the flame travel (mm)

T: Time for flame to travel (seconds)

(4) Evaluation:

(4.1) Sample in fire exposed in 15 seconds, put out fire, sample not burning, or sample is burnt, but self-extinguish before burning to the first measuring point, no burning distance can be recorded, it is considered to meet requirement of the burning rate, the result is recorded as A-0 mm/min.

(4.2) Flame passes the first measuring point, start timing, flame self-extinguishing in 60 seconds, and the burn distance is not more than 50 mm, it is also considered to meet requirement of the burning rate, the result is recorded as B.

(4.3) Flame self-extinguishing between the first and second measuring point, and does not meet described in the state 4.2, then follow the formula calculate burning rate, the result is recorded as C-XXmm.

(4.4) Flame passes second measuring point, or sample is burning slowly after starting timing, end the test after 20 minutes, record the relevant data, and calculate burning rate according to formula, the result is recorded as D-XXmm/min.

(4.5) Sample is exposed in fire for 15 seconds, the flame has passed the first measuring point, it is not considered to meet the requirements of the burning rate, the results is recorded as E.

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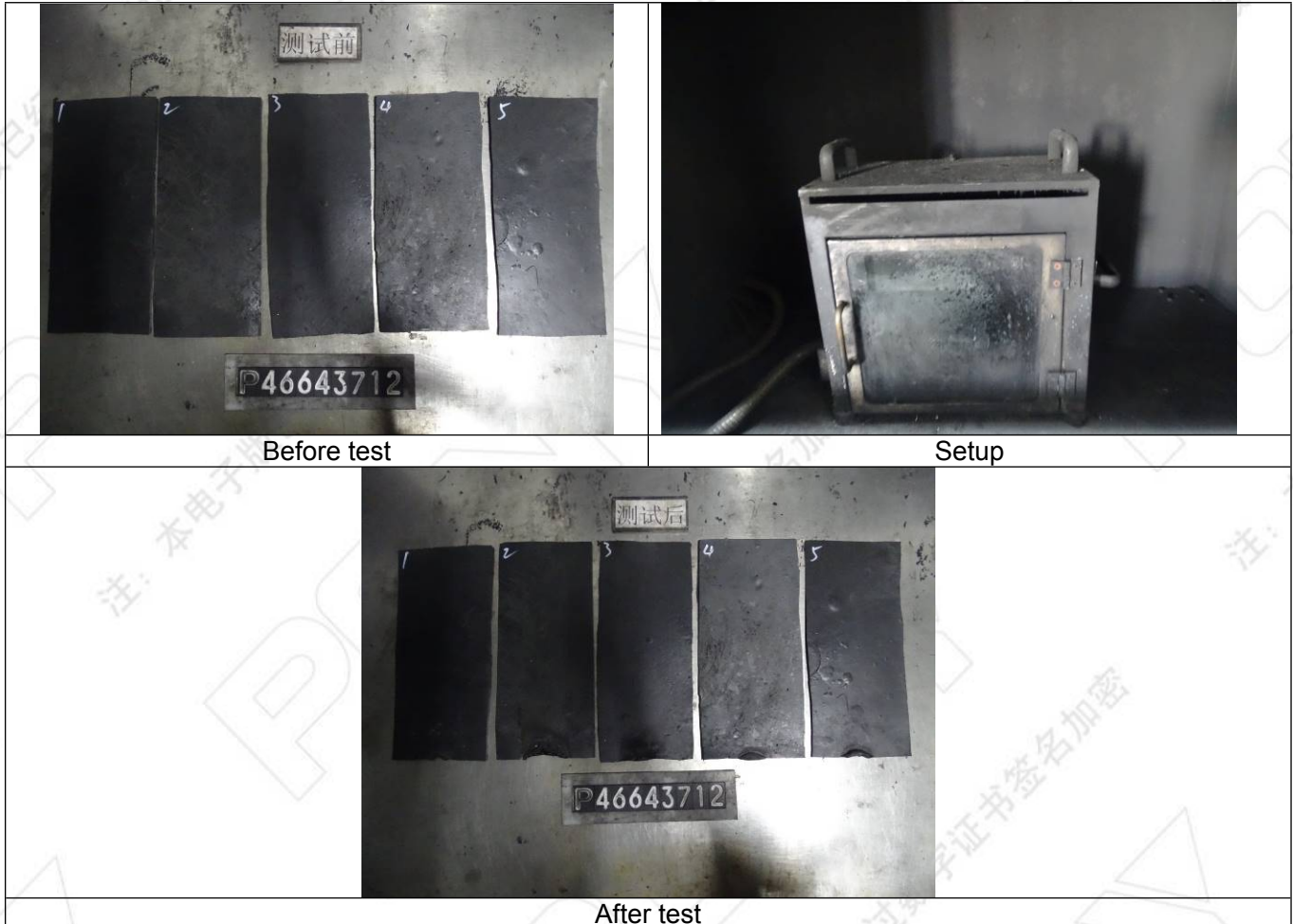
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Test results:

Test condition	Burning rate (mm/min)					
	1#	2#	3#	4#	5#	Max
23°C 50%RH 24h	A-0	A-0	A-0	A-0	A-0	A-0

Sample size: (220×100×2.8)mm

Test photos:



Equipment Information:

Equipment	Equipment Manufacturer	Equipment Model	Equipment No.	Validity Date
Automobile interior combustion tester	TESTECH	TTech-GB8410-T	IE312-03	2021-04-02

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10. Test item: Compression set

Test quantity: 3

Test method: According to GB/T 7759.1-2015 and the applicant's requirement

Test condition: Sample size: Type B, Three pieces superposition, Test temperature: 70°C,
Compression: 25%, Test time: 22h

Test result:

Sample No.	Test result
P46643712	98%

Test photos:



Equipment Information:

Equipment	Equipment Manufacturer	Equipment Model	Equipment No.	Validity Date
Air dry oven	FM	DGX-9143BC-1	IE015-22	2021-04-20
Rubber compression permanent denaturation tester	Daochun	AB universal type	IE367-02	/

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11. Test item: Brittleness temperature

Test quantity: 5

Test method: According to GB/T 15256-2014 and the applicant's requirement

Test condition: Sample size: (33×6×2) mm, Cryogen: Dry ice, Heat transfer medium: Ethanol
Freezing time: 5min

Test result:

Sample No.	Test result
P46643712	The brittleness temperature is -15℃

Test photos:



Equipment Information:

Equipment	Equipment Manufacturer	Equipment Model	Equipment No.	Validity Date
Brittleness testing machine	GOTECH	GT-7061	IE276	2020-09-24

————End of Report————



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