



中国认可  
国际互认  
检测  
TESTING  
CNAS L9334



微谱  
WEIPU

# 检测报告/Test Report

报告编号/ Report No.: SHA52-23054233-JC-01CnEn

样品来源/Sample Origin: 客户送样/ Customer Sample Delivery

江苏择善精密机械有限公司

客户名称/Client: Jiangsu Zeshan Precision Machinery Co., Ltd

睢宁县李集镇工业集中区 186 号（北外环路）

No. 186 North Outer Ring Road, Industrial  
Concentration Zone, Liji Town, Suining County,

地 址/Address: Xuzhou City, Jiangsu Province

上海微谱检测科技集团股份有限公司

Shanghai WEIPU Testing Technology Group Co., LTD.



# 检测报告/Test Report

下列样品及样品信息由委托方提供及确认/The following sample(s) was/were submitted and identified on behalf of the applicant:

样品名称/Sample Name: 丁腈橡胶/ Nitrile rubber

样品描述/Sample Description: /

样品规格/Specification: /

型号/批号/Type/ Batch number: /

其他信息/Other Information: 商标/Trademark: ZESAHN; 生产厂家/Manufacturer: 江苏择善精密机械有限公司/Jiangsu Zeshan Precision Machinery Co., Ltd; 生产批号/ Batch number: 2023-4-30

## 检测信息/Testing information:

接样日期/Date of Sample Received: 2023-05-18

检测周期/ Testing Period: 2023-05-18~ 2023-06-01

检测要求/Test Item(s): 根据客户要求进行检测/Selected test (s) as requested by client.

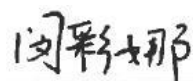
检测依据/Test Criterion: 请参见下一页/Please refer to next page(s).

检测结果/Test Result: 请参见下一页/Please refer to next page(s).

编制/Complied by:



批准/ Approved by:



签发日期/ Issued Date:

2023-06-01

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**1.检测项目/ Test item(s): 热老化测试/ Thermal aging test\***

检测依据/ Test standard(s): 依客户要求/ According to customer requirements

检测设备/ Testing equipment:

烘箱, 型号: FD56/ Oven, model: FD56

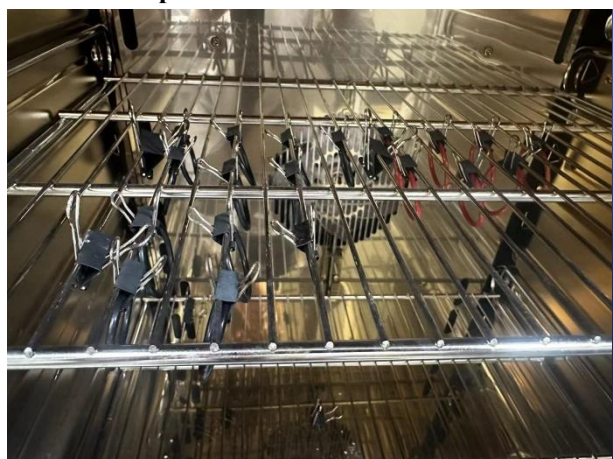
检测条件/ Test conditions:

125 °C, 70 h

检测结果/ Test result(s):

样品编号 Sample NO.	样品描述 Description	检测项目 Test Item	检测结果 Test Result
2305004355-1	/	热老化测试 Thermal aging test	外观无可视变化 No visible changes in appearance

**代表性附件/ Representative attachments:**



试验中 During test



试验后 After test

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## 2.检测项目/ Test item(s): 耐水体积变化/ Water resistant volume change\*

检测依据/ Test standard(s): 依客户要求/ According to customer requirements

检测设备/ Testing equipment:

烘箱, 型号: FD56/ Oven, model: FD56

检测条件/ Test conditions:

100 °C, 70 h, 三级水/ Tertiary water

检测结果/ Test result(s):

样品编号 Sample NO.	样品描述 Description	检测项目 Test Item	检测结果 Test Result
2305004355-1	/	耐水体积变化 Water resistant volume change	6.45 %

代表性附件/ Representative attachments:



试验中 During test



试验后 After test

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**3.检测项目/ Test item(s): 耐油性体积变化/ Oil resistance volume change**

检测依据/ Test standard(s): GB/T 1690-2010

检测设备/ Testing equipment:

烘箱, 型号: FD56/ Oven, model: FD56

高精度固液两用电子比重计, 型号: DH-120T/ High precision solid-liquid dual purpose electronic hydrometer, model: DH-120T

检测条件/ Test conditions:

(100±2) °C, 在 120#汽油中浸泡 24 h/ Soak in 120 # gasoline for 24 hours

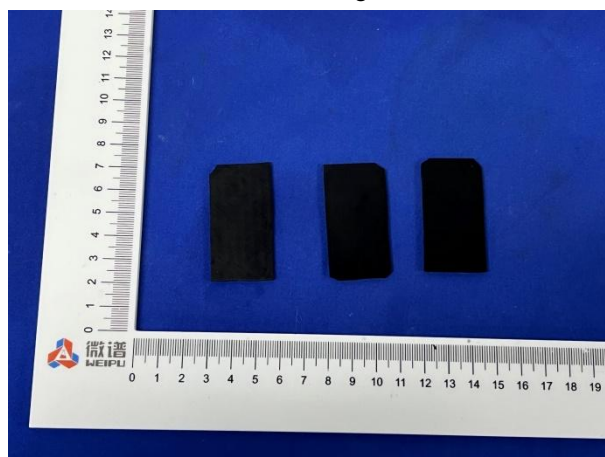
检测结果/ Test result(s):

样品编号 Sample NO.	样品描述 Description	检测项目 Test Item	检测结果 Test Result
2305004355-1	/	耐油性体积变化 Oil resistance volume change	2.34 %

代表性附件/ Representative attachments:



试验中 During test



试验后 After test



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**4.检测项目/ Test item(s):** 邵氏硬度\*/ Shore hardness\*

检测依据/ Test standard(s): GB/T 531.1-2008

检测设备/ Testing equipment:

邵氏硬度计 A, 型号: LX-D/ Shore hardness tester D, model: LX-A

台式百分测厚仪, 型号: CH-20/ Desktop percentage thickness gauge, model: CH-20

检测条件/ Test conditions:

叠加层数/ Stacked layers: 1

读数时间/ Reading time: 3 s

检测结果/ Test result(s):

样品编号 Sample NO.	样品描述 Description	检测项目 Test Item	检测结果 Test Result
2305004355-1	/	邵氏硬度 Shore hardness	66 ShoreA,3 s

备注/Note: 常态, 样品为 O 型圈/Normal, the sample is an O-ring

样品编号 Sample NO.	样品描述 Description	检测项目 Test Item	检测结果 Test Result
2305004355-1	/	邵氏硬度 Shore hardness	65 ShoreA,3 s
		硬度变化 Hardness	-1

备注/Note: 100 °C×70 h 水老化后, 样品为 O 型圈/ 100 °C× After 70 hours of water aging, the sample is an O-ring

样品编号 Sample NO.	样品描述 Description	检测项目 Test Item	检测结果 Test Result
2305004355-1	/	邵氏硬度 Shore hardness	83 ShoreA,3 s
		硬度变化 Hardness	+17

备注/Note: 125 °C×70 h 老化后, 样品为 O 型圈/100 °C× After 70 hours of aging, the sample is an O-ring

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**5.检测项目/ Test item(s):** 撕裂强度/ Tear strength

检测依据/ Test standard(s): GB/T 529-2008 方法 B/ Method B

检测设备/ Testing equipment:

万能材料试验机, 型号: 34TM-30/ Universal material testing machine, model: 34TM-30

台式百分测厚仪, 型号: CH-20/ Desktop percentage thickness gauge, model: CH-20

检测条件/ Test conditions:

试样类型/ Sample type: 直角型/ Right angle type

速度/ Speed: 500 mm/min

检测结果/ Test result(s):

样品编号 Sample NO.	样品描述 Description	检测项目 Test Item	序号 Serial number	检测结果 Test Result (kN/m)
2305004355-1	/	撕裂强度 Tear strength	1	51.50
			2	51.63
			3	49.90
			4	51.52
			5	49.44
			中值 Median	51.50
			结果表示 Result	52

备注/Note: 常态/Normal

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**6.检测项目/ Test item(s):** 拉伸性能/ Tensile property

检测依据/ Test standard(s): GB/T 528-2009

检测设备/ Testing equipment:

万能材料试验机, 型号: 34TM-30/ Universal material testing machine, model: 34TM-30

台式百分测厚仪, 型号: CH-20/ Desktop percentage thickness gauge, model: CH-20

检测条件/ Test conditions:

试样规格/ Sample specification: 1 型

标距/ Gauge length: 25 mm

速度/ Speed: 500 mm/min

检测结果/ Test result(s):

样品编号 Sample NO.	样品描述 Description	检测项目 Test Item	序号 Serial number	检测结果 Test Result (%)
2305004355-1	/	拉断永久变形 Set after break	1	3.732
			2	3.296
			3	3.468
			中值 Median	3.468
			结果表示 Result	3.5

备注/Note: 常态/Normal

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**7.检测项目/ Test item(s):** 拉伸性能\*/ Tensile property\*

检测依据/ Test standard(s): GB/T 528-2009

检测设备/ Testing equipment:

万能材料试验机, 型号: 34TM-30/ Universal material testing machine, model: 34TM-30

台式百分测厚仪, 型号: CH-20/ Desktop percentage thickness gauge, model: CH-20

检测条件/ Test conditions:

试样规格/ Sample specification: O 型圈/ O-ring

标距/ Gauge length: 20 mm

速度/ Speed: 500 mm/min

检测结果/ Test result(s):

样品编号 Sample NO.	样品描述 Description	序号 Serial number	拉伸强度 Tensile strength (MPa)	断裂伸长率 Elongation at break (%)	100%定伸应力 100% constant elongation stress (%)
2305004355-1	/	1	15.191	223.01	5.169
		2	14.020	214.48	4.855
		3	14.591	224.20	5.092
		中值 Median	14.591	223.01	5.092
		结果表示 Result	14.6	$2.2 \times 10^2$	5.09

备注/Note: 常态/Normal

样品编号 Sample NO.	样品描述 Description	序号 Serial number	拉伸强度 Tensile strength (MPa)	断裂伸长率 Elongation at break (%)
2305004355-1	/	1	16.679	231.12
		2	17.494	255.48
		3	17.171	228.16
		中值 Median	17.171	231.12
		结果表示 Result	17.2	$2.3 \times 10^2$
		变化率 Rate of change	+17.7 %	+3.6 %

备注/Note: 100 °C × 70 h 水老化后/100 °C × After 70 hours of water aging

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样品编号 Sample NO.	样品描述 Description	序号 Serial number	拉伸强度 Tensile strength (MPa)	断裂伸长率 Elongation at break (%)
2305004355-1	/	1	19.714	132.41
		2	16.836	133.55
		3	17.144	136.10
		中值 Median	17.144	133.55
		结果表示 Result	17.1	$1.3 \times 10^2$
		变化率 Rate of change	+17.5 %	-40.1 %

备注/Note: 125 °C × 70 h 老化后/100 °C × After 70 hours of aging

#### 8.检测项目/ Test item(s): 低温脆性温度/ Low temperature brittleness temperature\*

检测依据/ Test standard(s): GB/T 1682-2014 程序 B/ Program B

检测设备/ Testing equipment:

橡塑低温脆性测定仪/ Rubber and plastic low-temperature brittleness tester, 型号/ Model: MZ-4068

检测条件/ Test conditions:

试样规格/ Sample specification: (25×6×2) mm

冷冻温度/ Refrigeration temperature: -40 °C

冷冻时间/ Freezing time: 3 min

传热介质/ Heat transfer medium: 乙醇/Ethanol

制冷方式/ Refrigeration mode: 压缩机制冷/Compressor refrigeration

检测结果/ Test result(s):

样品编号 Sample NO.	样品描述 Description	检测项目 Test Item	检测结果 Test Result
2305004355-1	/	低温脆性温度 Low temperature brittleness temperature	无破坏 No damage

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**9.检测项目/ Test item(s):** 压缩永久变形/ Compression set

检测依据/ Test standard(s): GB/T 7759.1-2015 方法 A/ Method A

检测设备/ Testing equipment:

压缩永久变形仪, 型号: MYS-1/ Compression permanent deformation tester, model: MYS-1

台式百分测厚仪, 型号: CH-20/ Desktop percentage thickness gauge, model: CH-20

烘箱, 型号: FD56/ Oven, model: FD56

检测条件/ Test conditions:

试样类型/ Sample type: B 型:  $\Phi (13 \pm 0.5) \text{ mm} \times 4.0 \text{ mm}$ 

测试温度/ Test temperature: 100 °C

测试时间/ Test time: 70 h

压缩率/ Compression rate: 25 % (&lt;80IRHD)

恢复条件/ Recovery conditions: 方法 A/ Method A

检测结果/ Test result(s):

样品编号 Sample NO.	样品描述 Description	检测项目 Test Item	检测结果 Test Result
2305004355-1	/	压缩永久变形 Compression set	23 %

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**10.检测项目/ Test item(s):** 压缩永久变形/ Compression set

检测依据/ Test standard(s): GB/T 7759.1-2015 方法 A/ Method A

检测设备/ Testing equipment:

压缩永久变形仪, 型号: MYS-1/ Compression permanent deformation tester, model: MYS-1

台式百分测厚仪, 型号: CH-20/ Desktop percentage thickness gauge, model: CH-20

烘箱, 型号: FD56/ Oven, model: FD56

检测条件/ Test conditions:

试样类型/ Sample type: B 型:  $\Phi (13 \pm 0.5) \text{ mm} \times 4.0 \text{ mm}$ 

测试温度/ Test temperature: 125 °C

测试时间/ Test time: 22 h

压缩率/ Compression rate: 25 % (&lt;80IRHD)

恢复条件/ Recovery conditions: 方法 A/ Method A

检测结果/ Test result(s):

样品编号 Sample NO.	样品描述 Description	检测项目 Test Item	检测结果 Test Result
2305004355-1	/	压缩永久变形 Compression set	27 %

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**11.检测项目/ Test item(s):** 压缩永久变形/ Compression set

检测依据/ Test standard(s): GB/T 7759.1-2015 方法 A/ Method A

检测设备/ Testing equipment:

压缩永久变形仪, 型号: MYS-1/ Compression permanent deformation tester, model: MYS-1

台式百分测厚仪, 型号: CH-20/ Desktop percentage thickness gauge, model: CH-20

电热鼓风干燥箱, 型号: DHG-9075A/ Electric blast drying oven, model: DHG-9075A

检测条件/ Test conditions:

试样类型/ Sample type: B 型:  $\Phi (13 \pm 0.5) \text{ mm} \times 4.0 \text{ mm}$ 

测试温度/ Test temperature: 150 °C

测试时间/ Test time: 22 h

压缩率/ Compression rate: 25 % (&lt;80IRHD)

恢复条件/ Recovery conditions: 方法 A/ Method A

检测结果/ Test result(s):

样品编号 Sample NO.	样品描述 Description	检测项目 Test Item	检测结果 Test Result
2305004355-1	/	压缩永久变形 Compression set	41 %

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**12.检测项目/ Test item(s):** 压缩永久变形/ Compression set

检测依据/ Test standard(s): GB/T 7759.1-2015 方法 A/ Method A

检测设备/ Testing equipment:

压缩永久变形仪, 型号: MYS-1/ Compression permanent deformation tester, model: MYS-1

台式百分测厚仪, 型号: CH-20/ Desktop percentage thickness gauge, model: CH-20

电热鼓风干燥箱, 型号: DHG-9075A/ Electric blast drying oven, model: DHG-9075A

检测条件/ Test conditions:

试样类型/ Sample type: B 型:  $\Phi (13 \pm 0.5) \text{ mm} \times 4.0 \text{ mm}$ 

测试温度/ Test temperature: 150 °C

测试时间/ Test time: 24 h

压缩率/ Compression rate: 25 % (&lt;80IRHD)

恢复条件/ Recovery conditions: 方法 A/ Method A

检测结果/ Test result(s):

样品编号 Sample NO.	样品描述 Description	检测项目 Test Item	检测结果 Test Result
2305004355-1	/	压缩永久变形 Compression set	43 %

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样品照片/Sample picture(s):



2305004355-1

备注：本报告带\*项目的检测依据不在 CNAS 认可范围内。

Note:The test basis of \* item in this report is not within the scope of CNAS approval.

\*\*\*报告结束 End of the Report\*\*\*

—— 声明/DECLARE ——

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