Test Report

No.: SHAAF24002941236 **Date:** Mar 29, 2024

Client Name: Membrane Solutions New Material Technology (NanTong)Co.ltd

Client Address: No.159.Mudaniiang Road.Rudong County EconomicDevelopment Zone Nantong CityJianasu Province PR.China

Sample Name: PP Cartridge Filter

Production Date: 2024-2-1

The above sample(s) and information were provided by the client.

SGS Job No.: O-SHAFL202400317226 ASH24-0008999

Sample Receiving Date: Feb 21, 2024

Testing Period: Feb 21, 2024 ~ Feb 28, 2024

Test Requested: Select test(s) as requested by the client.

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

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

	Test Requirement	Comment
1	US FDA 21 CFR 177.1520 - Density at 23ºC	Pass
2	US FDA 21 CFR 177.1520 - Extractable fraction	Pass
3	US FDA 21 CFR 177.1520 - Soluble fraction in Xylene	Pass
4	US FDA 21 CFR 177.1520 - Melting Point	Pass
5	US FDA 21 CFR 177.1210 - Chloroform-Soluble Extractives	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Annie Liu

Annie Liu
Approved Signatory

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A2	SHA24-0029412-0001.C002	Semi transparent plastic solid	PP
SN2	A7	SHA24-0029412-0001.C007	White film	PP
SN3	A8	SHA24-0029412-0001.C008	White film	PP
SN4	A9	SHA24-0029412-0001.C009	Red sealing ring	Silicone Rubber

Remarks:

(1) mg/dm^2 = milligram per square decimeter
$mg/inch^2$ = milligram per square inches
$\mu g/cm^2$ = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram

(2) ℃ = degree Celsius
℉ = degree Fahrenheit

(3) <= less than

(4) RL = Reporting Limit

(5) ND = Not Detected (< RL).

US FDA 21 CFR 177.1520 - Density at 23ºC

Test Method: With reference to US FDA 21 CFR 177.1520d(1).

Test Item(s)	Limit	Unit(s)	A2
Density at 23ºC	0.85-1.00	g/cm^3	0.897
Comment			**Pass**

Test Item(s)	Limit	Unit(s)	A7	A8
Density at 23ºC	0.880-0.913	g/cm^3	0.897	0.897
Comment			**Pass**	**Pass**

US FDA 21 CFR 177.1520 - Extractable fraction

Test Method: With reference to US FDA 21 CFR 177.1520(d)(3)(ii).

Simulant used	Test Condition	Limit	Unit(s)	RL	A2	Comment
n-Hexane	50℃, 2 hrs	5.5	%(w/w)	0.1	ND	Pass

Test Method: With reference to US FDA 21 CFR 177.1520(d) 3 (i).

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Simulant used	Test Condition	Limit	Unit(s)	RL	A7	Comment
n-Hexane	Reflux Temperature, 2 hrs	6.4	%(w/w)	0.5	0.7	Pass

Simulant used	Test Condition	Limit	Unit(s)	RL	A8	Comment
n-Hexane	Reflux Temperature, 2 hrs	6.4	%(w/w)	0.5	ND	Pass

US FDA 21 CFR 177.1520 - Soluble fraction in Xylene

Test Method: With reference to US FDA 21 CFR 177.1520(d)(4)(ii).

Test Item(s)	Limit	Unit(s)	RL	A2
Soluble Fraction in Xylene	30	%(w/w)	0.5	10.8
Comment				**Pass**

Test Method: With reference to US FDA 21 CFR 177.1520 (d) 4 (i).

Test Item(s)	Limit	Unit(s)	RL	A7	A8
Soluble Fraction in Xylene	9.8	%(w/w)	0.5	6.7	7.5
Comment				**Pass**	**Pass**

US FDA 21 CFR 177.1520 - Melting Point

Test Method: With reference to US FDA 21 CFR 177.1520 (d) (2).

Test Item(s)	Limit	Unit(s)	A7	A8
Melting Point	160-180	°C	164.6	166.2
Comment			**Pass**	**Pass**

Notes:
These tests were subcontracted to SGS Ningbo Chemical Lab.

US FDA 21 CFR 177.1210 - Chloroform-Soluble Extractives

Test Method: With reference to US FDA 21 CFR 177.1210.

Simulant used	Test Condition	Limit	Unit(s)	RL	A9	Comment
n-Heptane	150°F, 2 hrs	50	mg/kg	5	ND	Pass
Distilled water	250°F, 2 hrs	50	mg/kg	5	ND	Pass

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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Sample Photo:



SHA24-0029412



SHA24-0029412-0001.C002

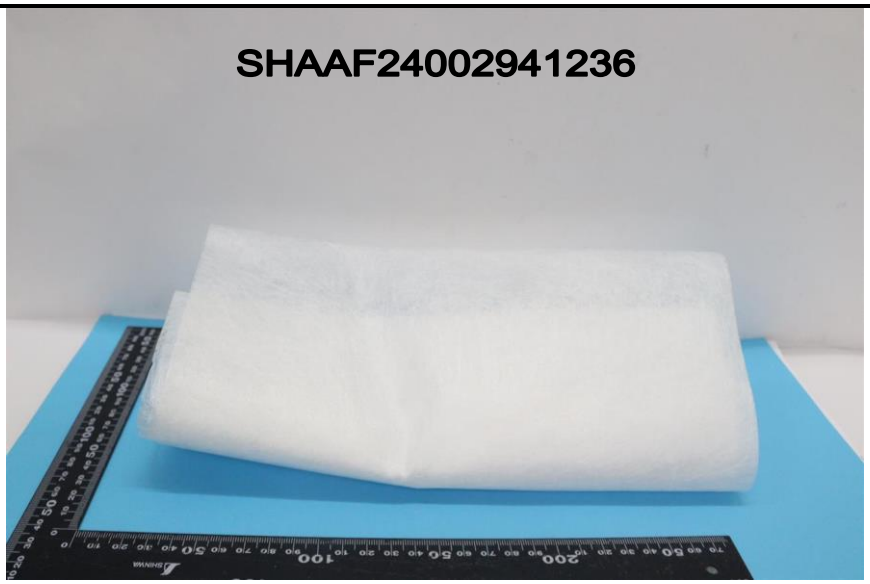
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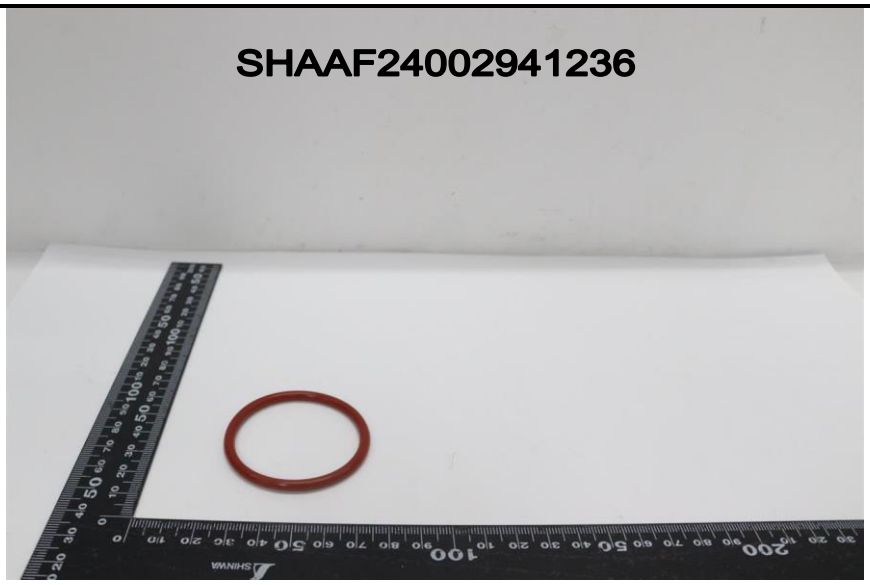


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