

Test Report

No: TX40403 /2018 /SP

Date: Apr. 13, 2018

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Asahi Kasei Corporation
Nonwoven Production Planning & Technology Dept.
Nonwoven Fabrics Division Fibers & Textiles SBU
1-105, Kanda Jinbocho, Chiyoda-Ku, Tokyo 101-8101, Japan

The following sample was submitted and identified by applicant as:

Sample Description : Non woven fabric
Color : Off White
Fiber Content : Cu100%
Style No. : Bemliese Nonwoven Fabric SB283/M3-II (Lot. 8307230F)
Applicant : Asahi Kasei Corporation
Nonwoven Production Planning & Technology Dept.
Nonwoven Fabrics Division Fibers & Textiles SBU
Sample Receiving Date : Apr. 10, 2018
Test Performance Period : Apr. 10, 2018 to Apr. 13, 2018
Testing requested : In accordance with the RoHS Directive 2011/65/EU Annex II directives.
Test Result : please see next page

Conclusion:

Based upon the performed tests by submitted samples, the test results **comply with** the limits of RoHS Directive 2011/65/EU Annex II directive

Signed for and on behalf of
SGS Taiwan Ltd.

Iris Chu

Chu Pei Hsin, Iris
Test Specialist



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Textile Laboratory

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Test Results:

Cadmium

Test Method: With reference to IEC 62321-5:2013 - Analysis was conducted with Inductively Coupled Plasma - atomic emission spectroscopy (ICP-AES).

	<u>Result</u> <u>(mg/kg)</u>	<u>Recommend Max Limit</u> <u>(mg/kg)</u>
Cadmium (Cd)	<u>1</u> ND	100
Conclusion	PASS	

Sample Description:

1. An off-white non woven fabric

Note: ND = Not Detected
Detection limit = 2 mg/kg

Lead

Test Method: With reference to IEC 62321-5:2013 - Analysis was conducted with Inductively Coupled Plasma - atomic emission spectroscopy (ICP-AES).

	<u>Result</u> <u>(mg/kg)</u>	<u>Recommend Max Limit</u> <u>(mg/kg)</u>
Lead (Pb)	<u>1</u> ND	1000
Conclusion	PASS	

Sample Description:

1. An off-white non woven fabric

Note: ND = Not Detected
Detection limit = 2 mg/kg

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Test Results:

Mercury

Test Method: With reference to IEC 62321-4:2013 - Analysis was conducted with Inductively Coupled Plasma - atomic emission spectroscopy (ICP-AES).

	<u>Result</u> <u>(mg/kg)</u>	<u>Recommend Max Limit</u> <u>(mg/kg)</u>
Mercury (Hg)	1 ND	1000
Conclusion	PASS	

Sample Description:

1. An off-white non woven fabric

Note: ND = Not Detected
Detection limit = 2 mg/kg

Chromium VI

Test Method: With reference to IEC 62321-7:2017. Analysis was conducted by UV/VIS Spectrometry.

	<u>Result</u> <u>(mg/kg)</u>	<u>Recommend Max Limit</u> <u>(mg/kg)</u>
Chromium (VI)	1 ND	1000
Conclusion	PASS	

Sample Description:

1. An off-white non woven fabric

Note: ND = Not Detected
Detection Limit = 8 mg/kg

Test Results:

Polybrominated Biphenyls (PBBs)

Test Method: With reference to IEC 62321-6:2015. Analysis was conducted by GC-MS.

Compounds	Result (mg/kg)	Recommend Max Limit (mg/kg)
	<u>1</u>	
Monobromobiphenyl	ND	-
Dibromobiphenyl	ND	-
Tribromobiphenyl	ND	-
Tetrabromobiphenyl	ND	-
Pentabromobiphenyl	ND	-
Hexabromobiphenyl	ND	-
Heptabromobiphenyl	ND	-
Octabromobiphenyl	ND	-
Nonabromobiphenyl	ND	-
Decabromobiphenyl	ND	-
Sum of PBBs	ND	1000
Conclusion	PASS	

Sample Description:

1. An off-white non woven fabric

Note: ND = Not Detected
Detection limit = 5 mg/kg

Test Results:

Polybrominated Biphenyl Ethers (PBDEs)

Test Method: With reference to IEC 62321-6:2015. Analysis was conducted by GC-MS.

Compounds	<u>Result</u> <u>(mg/kg)</u>	<u>Recommend Max Limit</u> <u>(mg/kg)</u>
	<u>1</u>	
Monobromobiphenyl ether	ND	-
Dibromobiphenyl ether	ND	-
Tribromobiphenyl ether	ND	-
Tetrabromobiphenyl ether	ND	-
Pentabromobiphenyl ether	ND	-
Hexabromobiphenyl ether	ND	-
Heptabromobiphenyl ether	ND	-
Octabromobiphenyl ether	ND	-
Nonabromobiphenyl ether	ND	-
Decabromobiphenyl ether	ND	-
Sum of PBDEs	ND	1000
Conclusion	PASS	

Sample Description:

1. An off-white non woven fabric

Note: ND = Not Detected
Detection limit = 5 mg/kg

Test Results:

Phthalates

Test Method: As according to IEC 62321-8:2017. Analysis was conducted by GC-MS.

<u>Compounds</u>	<u>Result</u> <u>(mg/kg)</u>	<u>Recommended</u> <u>Max. Limit</u> <u>(mg/kg)</u>
Dibutyl Phthalate (DBP)	<u>1</u> ND	1000
Benzylbutyl Phthalate (BBP)	ND	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	ND	1000
Diisobutyl phthalate (DIBP)	ND	1000
Conclusion	Pass	

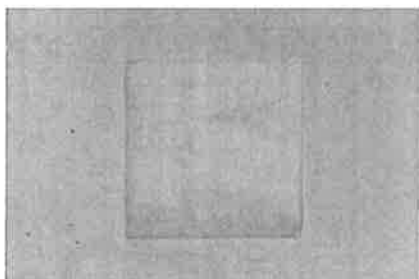
Sample Description:

1. An off-white non woven fabric

Note: ND = Not detected
 Detection limit: DBP, BBP, DIBP and DEHP = 50 mg/kg (individual compound)

Above test items were tested by relevant SGS laboratories.

Sample photo



*** End of Report ***