



Test Report

Report No.: LST20056354EN

Date: Jun. 01, 2020

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Applicant:

Address:

The following samples were submitted and identified by/on behalf of the client as:

Sample Name: MOUTH COVER
Style No.: 6646
Sample Receiving Date: May. 28, 2020
Testing Period: May. 28, 2020 to Jun. 01, 2020
Test Results: Please Refer To The Following Page(s)

Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Tested materials of submitted samples	Annex XVII items 43 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009 - Azo colorants and Azo dyes	PASS
2	Tested materials of submitted samples	Annex XVII items 22 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009 - Pentachlorophenol (PCP)	PASS
3	Tested materials of submitted samples	Class I on OEKO-TEX Standard 100:2018 - Formaldehyde	PASS

Signed for and on behalf of LST

Rory / Technical Manager





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Sample Description

Material No.	Component Description	Location
01	Black fabric	Mouth cover
02	Red fabric	Mouth cover
03	Blue fabric	Mouth cover
04	White fabric	Mouth cover
05▲	White fabric+ blue fabric	Mouth cover+ mouth cover
06▲	Black fabric+ red fabric	Mouth cover+ mouth cover

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Photo of sample





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Test Result(s):

Annex XVII items 43 of the REACH - Azo colourants and Azo dyes

Method: With reference to BS EN ISO 14362-1:2017 and BS EN ISO 14362-3:2017

Analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS)

No.	Substances Name	CAS No.	Limit (mg/kg)	Result (mg/kg)	
				05▲	06▲
1	biphenyl-4-ylamine/ 4-aminodiphenyl/ xenylamine	92-67-1	30	N.D.	N.D.
2	benzidine	92-87-5	30	N.D.	N.D.
3	4-chloro-o-toluidine	95-69-2	30	N.D.	N.D.
4	2-naphthylamine	91-59-8	30	N.D.	N.D.
5△	o-aminoazotoluene/ 4-o-tolylazo-o-toluidine/ 4-amino-2', 3-dimethylazobenzene	97-56-3	30	N.D.	N.D.
6△	2-amino-4-nitrotoluene/ 5-nitro-o-toluidine	99-55-8	30	N.D.	N.D.
7	4-chloroaniline	106-47-8	30	N.D.	N.D.
8	4-methoxy-m-phenylenediamine	615-05-4	30	N.D.	N.D.
9	4,4'-methylenedianiline/ ,4'-diaminodiphenylmethane	101-77-9	30	N.D.	N.D.
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	30	N.D.	N.D.
11	3,3'-dimethoxybenzidine/ o-dianisidine	119-90-4	30	N.D.	N.D.
12	3,3'-dimethylbenzidine/ 4,4'-bi-o-toluidine	119-93-7	30	N.D.	N.D.
13	4,4'-methylenedi-o-toluidine	838-88-0	30	N.D.	N.D.
14	6-methoxy-m-toluidine/ p-cresidine	120-71-8	30	N.D.	N.D.
15	4,4'-methylene-bis-(2-chloroaniline)/ 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4	30	N.D.	N.D.
16	4,4'-oxydianiline	101-80-4	30	N.D.	N.D.
17	4,4'-thiodianiline	139-65-1	30	N.D.	N.D.
18	o-toluidine/ 2-aminotoluene	95-53-4	30	N.D.	N.D.
19	4-methyl-m-phenylenediamine/ 2,4-toluylendiamine	95-80-7	30	N.D.	N.D.
20	2,4,5-trimethylaniline	137-17-7	30	N.D.	N.D.
21	o-anisidine / 2-methoxyaniline	90-04-0	30	N.D.	N.D.
22◇	4-aminoazobenzene	60-09-3	30	N.D.	N.D.
Conclusion				PASS	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).

Zhejiang Lisen Testing Technology Co., Ltd.
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E-mail: zj@lisenlab.com
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3. RL (Reporting Limit) = 5 mg/kg.
4. "△" = The CAS No. 97-56-3 (No.5) and 99-55-8 (No.6) are further reduced to CAS No.95-53-4 (No.18) and 95-80-7(No.19).
5. "◇" = Azo colorants that are able to form 4-aminoazobenzene(No.22), generate under the condition of this method aniline and 1, 4-phenylenediamine, therefore, the method of BS EN ISO 14362-3:2017 was employed to verify the 4-aminoazobenzene.
6. "▲"this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

Annex XVII items 22 of the REACH - Pentachlorophenol (PCP)

Method: With reference to ISO 17070:2015, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
05▲	1000	N.D.	PASS
06▲	1000	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL (Reporting Limit) = 0.1 mg/kg.
 4. "▲"this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

OEKO-TEX Standard 100:2018 Class II - Formaldehyde

Method: With reference to ISO 14184-1:2011, analyzed by Ultraviolet visible Spectroscopy (UV-Vis).

Material No.	Limit (mg/kg)				Result (mg/kg)	Conclusion
	I	II	III	IV		
01	N.D.	75	300	300	N.D.	PASS
02	N.D.	75	300	300	N.D.	PASS
03	N.D.	75	300	300	N.D.	PASS
04	N.D.	75	300	300	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 16 mg/kg.
 4. Product Class:
I = products for babies.



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- II = products with direct contact to skin.
- III = products without direct contact to skin.
- IV = decoration materials.

End of Report

SOLICITANTE
APPLICANT

MKTO CATAL IMPORTACIONES, S.L.
Dña. María José Martínez
CRTA HUERCAL-OVERA S/N
04640 PULPI (ALMERIA)

FECHA DE RECEPCIÓN DE LA/S MUESTRA/S:
DATE OF RECEIPT OF TEST SAMPLES

09/06/2020

FECHA/S DE REALIZACIÓN DEL ENSAYO:
DATE OF PERFORMANCE OF TESTS

*Inicio // Start : *Fin // End:
11/06/2020 11/06/2020

ENSAYO // Test : Análisis según // According to

- Ensayo de respirabilidad, (presión diferencial) según anexo C de la norma UNE-EN 14683:2019+AC «Mascarillas quirúrgicas. Requisitos y métodos de ensayo». // - Breathability test, (differential pressure) according to the annex C of the standard EN 14683: 2019 + AC:2019 «Medical face masks. Requirements and test methods".

DESCRIPCIÓN DE LA/S MUESTRA/S ENVIADA/S Y REFERENCIADA/S POR EL SOLICITANTE (ver Anexo I si procede):
DESCRIPTION OF THE SAMPLE/S SENT TO US AND ACCOUNTED BY THE APPLICANT (see appendix I when appropriate):

Mascarilla higiénica reutilizable ref. 6646

Nº lote o nº serie : no indicado.

Sello // Stamp //
Tampon

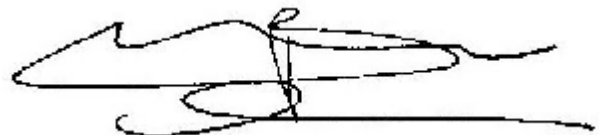


Directora Técnica //
Technical Director



Ana Sánchez

El responsable del ensayo //
Technician in charge



Bartolomé González Carricondo

FECHA DE EMISIÓN DEL INFORME: 12/06/2020
DATE OF REPORT

ESTE INFORME CONSTA DE 5 HOJAS
THIS REPORT HAS PAGES

RESULTADOS DE LOS ENSAYOS SEGUN // RESULTS OF THE TESTS ACCORDING TO

Ensayo de respirabilidad, (presión diferencial) según anexo C de la norma UNE-EN 14683:2019+AC // Breathability test, (differential pressure) according to the annex C of the standard EN 14683: 2019 + AC:2019.

Aplicados sobre la ref.// applied to the following items:

Mascarilla higiéncia reutilizable ref. 6646

ENSAYOS REALIZADOS // TEST		RESULTADOS // RESULTS Presión diferencial media // Average differential pressure ± DT (Pa/cm ²)
Pto. 5.2.3	Respirabilidad. Presión diferencial // Breathability: Differential pressure	15,4 ± 0,7

* Presión diferencial media y DT para 25 medidas // Averagedifferentialpressure and DT for 25 measurements

Muestra de ensayo // Test specimen	Medidas // measures(Pa/cm ²)					Presión diferencial media // Average differential pressure(Pa/cm ²)
	Pos1	Pos2	Pos3	Pos4	Pos5	
1	15,42	15,42	14,81	15,42	14,20	15,1
2	15,63	14,81	15,83	15,63	15,83	15,5
3	15,83	16,03	15,83	13,59	14,61	15,2
4	16,24	16,44	15,83	14,81	16,44	16,0
5	14,81	15,63	15,22	14,81	15,22	15,1

NOTAS // REMARKS

- CONDICIONES DE LAVADO : 5 ciclos de lavado con detergente normal y agua a temperatura 60 ° (ciclo normal de lavadora) y secado al aire// 5 wash cycles with normal detergent and water at temperature 60 (normal washing machine cycle) and air drying.
- Acondicionamiento previo a (21±5)°C y (85±5%) % HR durante un mínimo de 4 h. // Conditioning to (21 ± 5) °C and (85 ± 5%)% RH for a minimum of 4 h.
- Caudal de aire de 8 l/min // 8 l/min air flow
- Ensayadas 5 muestras // 5 samples tested
- Area de ensayo de 4.9 cm²//4.9 cm² test area
- Desviación típica (DT) // Standard deviation (DT)

INFORMACION // INFORMATION

Criterios de aceptación para mascarillas higienicas no reutilizables según Especificacion UNE-0064-1:2020// <i>Acceptance criteria for non-reusable hygienic masks according to Specification UNE-0064-1: 2020</i>	
Respirabilidad. Presión diferencial // Breathability: Differential pressure(Pa/cm ²)	< 60

Criterios de aceptación para mascarillas quirurgicas según (Tabla 1)de UNE-EN 14683:2019+AC // <i>Acceptance criteria for surgical masks according to (Table 1) of UNE-EN 14683: 2019 + AC</i>			
Ensayo // Test	Tipo I // Type I	Tipo II // Type I	Tipo IIR // Type IIR
Respirabilidad. Presión diferencial // Breathability: Differential pressure(Pa/cm ²)	< 40	< 40	< 60

ANEXO 1 // APPENDIX 1



Mascarilla higiéncia reutilizable ref. 6646

PRESCRIPCIONES // PRESCRIPTIONS // PRESCRIPTIONS

1.- AIJU responde únicamente de los resultados sobre los métodos de análisis empleados consignados en el informe y referidos exclusivamente a los materiales o muestras que se indican en el mismo y que quedan en su poder, limitando a estos la responsabilidad profesional y jurídica del Centro. Salvo mención expresa, las muestras han sido libremente elegidas y enviadas por el solicitante. La información facilitada por el solicitante sobre la referencia y/o sus modelos derivados es descrita por él mismo, y el laboratorio no se responsabiliza de ello.

// AIJU is only responsible for the results achieved according to the test methods shown in the report and referred exclusively to the described materials or samples, which will remain in this centre. The professional and legal responsibility of AIJU is limited to this results. Unless mentioned, the samples have been selected and sent by the applicant. The information provided by the applicant about the reference and/or its derivative models is described by him and the laboratory is not responsible for this.

2. Los materiales o muestras sobre los que se realicen los ensayos serán destruidos transcurridos 3 días desde la fecha de emisión del informe, por lo que no procederá la realización de posteriores comprobaciones o bien reclamaciones en las que sea necesario disponer de la muestra.

// The materials or samples on which the tests are carried out will be destroyed after 3 days from the date of issuance of the report. Thus, it is not necessary to perform any post checks or claims which need the sample.

3. Por referirse precisamente a los materiales o muestras, las indicaciones consignadas en el informe no tienen carácter de garantía para la marca comercial del solicitante.

// The information shown in this report does not express any guarantee to the applicant's trade-mark, since they refer only to the tested materials or samples.

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5. Con objeto de perseguir posibles falsificaciones AIJU podrá informar a terceros sobre la "autenticidad" del presente informe.

// In order to prosecute potential counterfeits, AIJU will be able to inform third parties about the "authenticity" of the present report.

6. Ante posibles discrepancias entre informes, se procederá a una comprobación dirimente en la sede central de este Instituto. Así mismo, el solicitante se obliga a notificar a este Centro cualquier reclamación que reciba, con causa en el informe, eximiendo a este Centro de toda responsabilidad, caso de no hacerlo así, y considerados los plazos de conservación antecitados.

// In case of disagreement, a decisive verification will be fulfilled at our premises. In addition, the applicant is obliged to notify this centre any complaints caused by this report taking into account the terms mentioned above. Any other procedures would exempt AIJU from any responsibilities.

7. Los apartados de la/s Norma/s anteriormente citada/s omitidos en el presente informe no son aplicables a la/s muestra/s ensayada/s.

// The clauses of the mentioned Standards that have been omitted in this report are not applicable to the sample(s) tested.

// Les clauses relatives aux normes omises dans le présent rapport ne sont pas applicables aux échantillons testés.

8. La/s incertidumbre/s de la/s medida/s indicada/s en el presente informe de ensayo se encuentra/n a disposición del cliente.

// The uncertainties of the measurements indicated in this test report are at the client's disposal.

9. La muestra de ensayo para análisis químicos procedente de dos o más referencias, ha sido tomada de forma aleatoria entre los materiales de estas referencias, previa certificación del fabricante de que son de igual composición.

// The testing sample for chemical analysis, coming from two or more references, has been taken randomly among the materials of these references, previously certificated by the manufacturer that they have the same components.

10. El original del presente informe se mantiene archivado en el servidor del laboratorio de AIJU durante un periodo de 10 años. El informe firmado electrónicamente en soporte digital se considera un documento

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11. Con el fin de mejorar la atención al cliente, AIJU pone a su disposición un servicio de atención de reclamaciones

// With the aim of improving our service towards customers, AIJU makes available a service of complaints attention.

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// The information provided by the applicant, in relation to this document/work, is confidential. AIJU needs the express authorization of the applicant to transmit any information to thirdparties.
