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MARRÓN/BROWN/MARRON VMQ 40 FDA

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FICHA TÉCNICA

TECHNICAL DATA SHEET

FICHE MATIERE¹

Código mezcla <i>Compound pn</i> <i>Réf. Mélange</i>	Mezcla <i>Compound</i> <i>Mélange</i>	Material <i>Material</i> <i>Matière</i>	Dureza <i>Hardness</i> <i>Dureté</i>	Color <i>Colour</i> <i>Couleur</i>
0687	JA4327F-314027	VMQ	40	MARRÓN CLARO <i>LIGHT BROWN</i> <i>MARRON CLAIR</i>

Formulación *Formula Formulation*

ASTM D 2000 M5GE406 A19 B37 EA14 EO16 EO36 F19

Temperaturas de trabajo <i>Working conditions</i> <i>Tenue en température</i>	Min.	Max. (en continuo / <i>long term / en continu</i>)	Max. (en punta / <i>peak / en pointe</i>)
	-55 °C	+180 °C	+200 °C

REACH	ROHS III	2015/863/UE		
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Homologaciones *Approvals Homologations*

FDA	1935/ 2004	NSF51	KTW	WRAS	ACS CLP	KIWA	W270	EN68- 1	W534	USP	3-A	NSF61	UL	EN549	EN682
JIORings	JIORings														

Características <i>Technical properties</i> <i>Propriétés techniques</i>	Método de prueba <i>Test method</i> <i>Méthode</i>	Valores garantizados <i>Guaranteed values</i> <i>Valeurs garanties</i>	Unidad de medida <i>Unit of measure</i> <i>Unité de mesure</i>
Dureza <i>Hardness Dureté</i>	ASTM D 2240	40 +/-5	Shore A
Peso específico <i>Specific gravity Poids spécifique</i>	ASTM D 297	1,14 +/-0,03	g/cm ³
Resistencia a la tracción <i>Tensile strenght Résistance à la traction</i>	ASTM D 412	7,2	MPa
Alargamiento a rotura <i>Elongation at break Allongement à la rupture</i>	ASTM D 412	455	%
Resistencia al Frio <i>Cold test Tenue au froid</i> Brittleness	ASTM D 2137	PASS	3 min @ -55°C

Deformación permanente a la presión
*Compression set
Déformation rémanente à la pression*

Características <i>Technical properties Propriétés techniques</i>			Método de prueba <i>Test method Méthode</i>	Valores garantizados <i>Guaranteed values Valeurs garanties</i>	Unidad de medida <i>Unit of measure Unité de mesure</i>
Deform. %	22 h	175 °C	ASTM D 395 B	19	%

				ΔDureza <i>ΔHardness</i> <i>ΔDureté</i>		ΔRes. tracción <i>ΔTensile strength</i> <i>ΔRés.traction</i>		ΔAlargamiento <i>ΔElongation</i> <i>ΔAllongement</i>		ΔVolumen <i>ΔVolume</i> <i>ΔVolume</i>		ΔPeso <i>ΔWeight</i> <i>ΔPoids</i>	
Ambiente <i>Medium</i> <i>Milieu</i>	Método <i>Test method</i> <i>Méthode</i>	Tiempo <i>Time</i> <i>Temps</i>	Temp. <i>°C</i>	Shore A		%		%		%		%	
				Requerido <i>Required</i> <i>Demandé</i>	Obtenido <i>Tested</i> <i>Obtenu</i>	Requerido <i>Required</i> <i>Demandé</i>	Obtenido <i>Tested</i> <i>Obtenu</i>	Requerido <i>Required</i> <i>Demandé</i>	Obtenido <i>Tested</i> <i>Obtenu</i>	Requerido <i>Required</i> <i>Demandé</i>	Obtenido <i>Tested</i> <i>Obtenu</i>	Requerido <i>Required</i> <i>Demandé</i>	Obtenido <i>Tested</i> <i>Obtenu</i>
AIRE <i>Air</i>	ASTM D 573	72	225	≤ + 10	+ 4	≥ - 25	-5	≥ - 30	-18				
AGUA <i>Water / Eau</i>	ASTM D 471	70	100	± 5	+ 2					± 5	+ 1		
ASTM Oil 1	ASTM D 471	70	175	-15/0	-5	≥ - 20	-10	≥ - 20	-15	0/+10	+ 3		
ASTM Oil 3	ASTM D 471	70	175	≥ - 30	-20					≤ + 60	+ 25		

IMDS Internation Material Data System

Nombre Químico <i>Chemical Name Nom chimique</i>	CAS nº	Porcentaje <i>Percentage Pourcentage</i>
FDA VMQ	112926-00-8	97,2 %
COLOR	63231-67-4	4,78 %
MISCELLANEOUS	-	2,50 %

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Les données indiquées ne doivent être considérées qu'à titre indicatif et utilisées par du personnel qualifié techniquement, toujours sous sa responsabilité et/ou risques. JIORings n'assumera aucune responsabilité quant à une utilisation erronée des données et des informations. De plus, ce rapport ne peut être utilisé pour enfreindre les lois et/ou les brevets en vigueur. Enfin, nous soulignons que les résultats obtenus sur des produits finis peuvent être relativement différents de ceux obtenus en laboratoire sur des échantillons.

JIORINGS

Polígono Erletxe, Plataforma H, Edificio 2, N° 5
ES-48960 Galdakao (Bizkaia)

Commande / order : JA4327F-134027 + devis signé

Dossier : D23-07-0121

RAPPORT D'ESSAIS / TESTS REPORT N°E23-28509

1. OBJET

Examen de l'inertie d'un matériau devant entrer en contact avec des aliments.

2. DOCUMENTS DE REFERENCE

- Norme NF EN 1186, parties 1 à 3
- Norme NF EN 13130-1
- Arrêté du 25/11/92 (JO du 17/12/92)
- Règlement (CE) n°1935/2004 du 27 octobre 2004
- Règlement (UE) n°10/2011 du 14 Janvier 2011, modifié

3. DESCRIPTION DE L'ECHANTILLON

Echantillon réceptionné au laboratoire le 04/07/2023

Silicone alimentaire pour bords : mélange JA4327F-314027

Référence : JA4327F-314027

Conditions particulières d'utilisation :
usage répété

OBJECT

Inertia's examination of a material intended to come into contact with foodstuffs.

REFERENCE DOCUMENTS

- Standard NF EN 1186, parts 1 to 3
- Standard NF EN 13130-1
- Order of 25/11/92 (french official gazette of 17/12/92)
- Regulation (EC) n°1935/2004 of October 27, 2004
- Modified Regulation (EU) n°10/2011 of January 14, 2011

SAMPLE DESCRIPTION

Sample received at Laboratory on 04/07/2023

Foodstuff silicone for plugs : compound JA4327F-314027

Reference : JA4327F-314027

Particular use conditions:
repeated use

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Seule la version française fait foi - Only the french version is legally acceptable.

4. RESULTATS / RESULTS

Les essais ont été définis à partir des données communiquées par le client / The tests were defined on the basis of the data provided by the customer.

Test - Simulant	Conditions Test conditions	Méthode - Technique Method - Technic	Résultats Results	Limites Limits	Unités Units
1 - Migration globale - Overall migration					
Migration globale/Overall migration - Immersion - Simulant B - 1	3 x 10 jours/days 40°C	NF EN 1186-1 et 3 Immersion	0, 8	10 ± 2	mg/dm ²
Migration globale/Overall migration - Immersion - Simulant B - 2	3 x 10 jours/days 40°C	NF EN 1186-1 et 3 Immersion	0, 7	10 ± 2	mg/dm ²
Migration globale/Overall migration - Immersion - Simulant B - 3	3 x 10 jours/days 40°C	NF EN 1186-1 et 3 Immersion	1, 0	10 ± 2	mg/dm ²
Moyenne migration globale / Mean value overall migration- Simulant B	3 x 10 jours/days 40°C	NF EN 1186-1 et 3 Immersion	0, 8	10 ± 2	mg/dm ²
Migration globale/Overall migration - Immersion - Simulant D1 - 1	3 x 10 jours/days 40°C	NF EN 1186-1 et 3 Immersion	3, 0	10 ± 2	mg/dm ²
Migration globale/Overall migration - Immersion - Simulant D1 - 2	3 x 10 jours/days 40°C	NF EN 1186-1 et 3 Immersion	2, 0	10 ± 2	mg/dm ²
Migration globale/Overall migration - Immersion - Simulant D1 - 3	3 x 10 jours/days 40°C	NF EN 1186-1 et 3 Immersion	3, 0	10 ± 2	mg/dm ²
Moyenne migration globale / Mean value overall migration- Simulant D1	3 x 10 jours/days 40°C	NF EN 1186-1 et 3 Immersion	2, 7	10 ± 2	mg/dm ²
2 - Migration spécifique - Specific migration					
Etain / Tin (Sn) - Simulant B - 1	3 x 10 jours/days 60°C	Méthode interne MA-MPM-159 (ICP-MS) Immersion	< LQ/LOQ = 0,002	0,1	mg/kg
Etain / Tin (Sn) - Simulant B - 2	3 x 10 jours/days 60°C	Méthode interne MA-MPM-159 (ICP-MS) Immersion	< LQ/LOQ = 0,002	0,1	mg/kg

Test - Simulant	Conditions Test conditions	Méthode - Technique Method - Technic	Résultats Results	Limites Limits	Unités Units
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LQ / LOQ : Limite de Quantification Analytique / Analytical Limit Of Quantification

Début des essais le / date of tests beginning : 04/07/2023.

5. Commentaire et conclusion / Comment and conclusion :

- Commentaire / Comment :

Rapport S/V utilisé pour le calcul de migration spécifique : rapport conventionnel de 6 dm² / 1 kg de simulant
S/V ratio used for specific migration calculation : conventional ratio of 6 dm² / 1 kg of simulant

En ce qui concerne la déclaration de conformité ou non à la spécification,

- Pour la migration globale, il a été tenu compte de la tolérance analytique fixée par les textes de référence, mais pas de l'incertitude de mesure.

- Pour les autres paramètres, il n'a pas été tenu compte de l'incertitude associée au dosage.

Concerning the compliance statement or not to the specification,

- For overall migration, consideration was given to the analytical tolerance set by the reference texts. but not the uncertainty measurement.

- For other parameters, it wasn't taken into account the uncertainty measurement.

NB : Le matériau doit être conforme aux exigences de composition définies par les réglementations européennes existantes et les textes nationaux applicables pour la fabrication des matériaux au contact des aliments.

NB: The material must be in accordance with the composition requirements defined by the European regulations and the national texts relevant to food contact materials manufacturing.

à Poitiers, le 01/09/2023

Véronique PEROCHES

Chargée de service



JIORINGS

Polígono Erletxe, Plataforma H, Edificio 2, N° 5
ES-48960 Galdakao (Bizkaia)

Commande / order : JA4327F-134027 + devis signé

Dossier : D23-07-0121

RAPPORT D'ESSAIS / TESTS REPORT N°E23-28510

1. OBJET

Détermination de la teneur en substances dans un matériau.

OBJECT

Determination of level of substances in a material.

2. DOCUMENTS DE REFERENCE

- Loi n°2012-1442 du 24 décembre 2012
- Document DGCCRF : "Mise en oeuvre de la loi bisphénol A (BPA)" du 08/12/2014

REFERENCE DOCUMENTS

- Law n°2012-1442 of december 24, 2012
- DGCCRF document : "Implementation of the bisphenol A (bpa) law" of 08/12/2014

3. DESCRIPTION DE L'ECHANTILLON

Echantillon réceptionné au laboratoire le 04/07/2023

Silicone alimentaire pour bondes : mélange JA4327F-314027

Référence : JA4327F-314027

SAMPLE DESCRIPTION

Sample received at Laboratory on 04/07/2023

Foodstuff silicone for plugs : compound JA4327F-314027

Reference : JA4327F-314027

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4. RESULTATS / RESULTS

Extraction du matériau : 24 heures à 23°C dans l'acétonitrile.
Extraction of the material : 24 hours at 23°C in acetonitrile.

Test	Méthode - Technique Method - Technic	Résultats Results	Unités Units
3 - Teneur dans le matériau / Material content			
MCDA 151_2,2-Bis-(4-Hydroxyphenyl)Propane (Bisphenol A) - 1	Méthode interne MA-MPO-508 (LCMSMS)	< LQ/LOQ = 0,08	mg/kg
MCDA 151_2,2-Bis-(4-Hydroxyphenyl)Propane (Bisphenol A) - 2	Méthode interne MA-MPO-508 (LCMSMS)	< LQ/LOQ = 0,08	mg/kg

LQ / LOQ : Limite de Quantification Analytique / Analytical Limit Of Quantification

Début des essais / date of tests beginning : 04/07/2023.

NB : Le matériau doit être conforme aux exigences de composition définies par les réglementations européennes existantes et les textes nationaux applicables pour la fabrication des matériaux au contact des aliments.

NB: The material must be in accordance with the composition requirements defined by the European regulations and the national texts relevant to food contact materials manufacturing.

à Poitiers, le 01/09/2023

Véronique PEROCHES

Chargée de service



JIORINGS

Polígono Erletxe, Plataforma H, Edificio 2, N° 5
ES-48960 Galdakao (Bizkaia)

Commande / order : JA4327F-134027 + devis signé

Dossier : D23-07-0121

RAPPORT D'ESSAIS / TESTS REPORT N°E23-28511

1. OBJET

Détermination de la teneur en phtalates dans un matériau.

OBJECT

Determination of level of phtalates in a material.

2. DOCUMENTS DE REFERENCE

- Règlement (CE) n°1935/2004 du 27 octobre 2004
- Règlement (UE) n°10/2011 du 14 Janvier 2011, modifié

REFERENCE DOCUMENTS

- Regulation (EC) n°1935/2004 of October 27, 2004
- Modified Regulation (EU) n°10/2011 of January 14, 2011

3. DESCRIPTION DE L'ECHANTILLON

Echantillon réceptionné au laboratoire le 04/07/2023

Silicone alimentaire pour bondes : mélange JA4327F-314027

Référence : JA4327F-314027

SAMPLE DESCRIPTION

Sample received at Laboratory on 04/07/2023

Foodstuff silicone for plugs : compound JA4327F-314027

Reference : JA4327F-314027

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Seule la version française fait foi - Only the french version is legally acceptable.

4. RESULTATS / RESULTS

Extraction du matériau : 8 heures à reflux dans l'hexane.
Extraction of the material : 8 hours at reflux in hexane.

Test - Simulant	Méthode - Technique Method - Technic	Résultats Results	Limites Limits	Unités Units
3 - Teneur dans le matériau / Material content				
MCDA 157_Phthalic Acid, Dibutyl Ester (DBP) - 1	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 0,1	/	mg/kg
MCDA 157_Phthalic Acid, Dibutyl Ester (DBP) - 2	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 0,1	/	mg/kg
MCDA 159_Phthalic Acid, Benzyl Butyl Ester (BBP) - 1	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 0,3	/	mg/kg
MCDA 159_Phthalic Acid, Benzyl Butyl Ester (BBP) - 2	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 0,3	/	mg/kg
MCDA 283_Phthalic Acid, Bis(2-Ethylhexyl) Ester (DEHP) - 1	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 5,0	/	mg/kg
MCDA 283_Phthalic Acid, Bis(2-Ethylhexyl) Ester (DEHP) - 2	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 5,0	/	mg/kg
MCDA 316_Phthalic Acid, Diallyl Ester (DAP) - 1	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 0,1	/	mg/kg
MCDA 316_Phthalic Acid, Diallyl Ester (DAP) - 2	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 0,1	/	mg/kg
MCDA 728_Diisononyl Phtalate (DINP) - 1	Méthode interne MA-MPO-556 (GCMS)	(1)	/	mg/kg
MCDA 728_Diisononyl Phtalate (DINP) - 2	Méthode interne MA-MPO-556 (GCMS)	(1)	/	mg/kg
MCDA 729_Diisodecyl Phtalate (DIDP) - 1	Méthode interne MA-MPO-556 (GCMS)	(1)	/	mg/kg
MCDA 729_Diisodecyl Phtalate (DIDP) - 2	Méthode interne MA-MPO-556 (GCMS)	(1)	/	mg/kg
Diethyl phtalate (DEP) - 1	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 0,1	/	mg/kg
Diethyl phtalate (DEP) - 2	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 0,1	/	mg/kg
Diisobutyl phtalate (DIBP) - 1	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 0,1	/	mg/kg
Diisobutyl phtalate (DIBP) - 2	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 0,1	/	mg/kg
Dimethyl phtalate (DMP) - 1	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 0,1	/	mg/kg
Dimethyl phtalate (DMP) - 2	Méthode interne MA-MPO-556 (GCMS)	< LQ/LOQ = 0,1	/	mg/kg
Di-n-octyl phtalate (DNOP) - 1	Méthode interne MA-MPO-556 (GCMS)	(1)	/	mg/kg
Di-n-octyl phtalate (DNOP) - 2	Méthode interne MA-MPO-556 (GCMS)	(1)	/	mg/kg

LQ / LOQ : Limite de Quantification Analytique / Analytical Limit Of Quantification

Début des essais le / date of tests beginning : 04/07/2023.

5. COMMENTAIRE / COMMENT

(1) Interférences ne permettant pas de doser cette molécule / Interferences not permitting the dosage of this substance

NB : Le matériau doit être conforme aux exigences de composition définies par les réglementations européennes existantes et les textes nationaux applicables pour la fabrication des matériaux au contact des aliments.

NB: The material must be in accordance with the composition requirements defined by the European regulations and the national texts relevant to food contact materials manufacturing.

à Poitiers, le 01/09/2023

Véronique PEROCHES

Chargée de service



23-28509 du 1^{er} septembre 2023

ANNEX OF TESTS REPORT N° E23-28509 of september 1st, 2023

DOSSIER : D23-07-0121

DESCRIPTION DE L'ECHANTILLON

Echantillon réceptionné au laboratoire le 04/07/2023
Silicone alimentaire pour boudes : mélange JA4327F-314027
- Référence : JA4327F-314027

SAMPLE DESCRIPTION

Sample receptionned at Laboratory on 04/07/2023
Foodstuff silicone for plugs : compound JA4327F-314027
Reference: JA4327F-314027

CONDITIONS D'ESSAI ET RESULTATS / TEST CONDITIONS AND RESULTS

Test <i>Simulant</i>	Conditions <i>Test conditions</i>	Méthode / Technique <i>Method / Technic</i>	Résultats <i>Results</i>	Limites <i>Limits</i>	Unités <i>Units</i>
1 : Migration globale / Overall migration					
Migration globale / Overall migration - Immersion Simulant B - 1	10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	1.4	10 ± 2	mg/dm ²
Migration globale / Overall migration - Immersion Simulant B - 2	10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	1.8	10 ± 2	mg/dm ²
Migration globale / Overall migration - Immersion Simulant B - 3	10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	1.0	10 ± 2	mg/dm ²
Moyenne migration globale / Mean value overall migration - Immersion Simulant B	10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	1.4	10 ± 2	mg/dm ²
Migration globale / Overall migration - Immersion Simulant D1 - 1	10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	6.8	10 ± 2	mg/dm ²
Migration globale / Overall migration - Immersion Simulant D1 - 2	10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	6.6	10 ± 2	mg/dm ²
Migration globale / Overall migration - Immersion Simulant D1 - 3	10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	5.9	10 ± 2	mg/dm ²
Moyenne migration globale / Mean value overall migration - Immersion Simulant D1	10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	6.4	10 ± 2	mg/dm ²
Migration globale / Overall migration - Immersion Simulant B - 1	2 x 10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	0.9	10 ± 2	mg/dm ²
Migration globale / Overall migration - Immersion Simulant B - 2	2 x 10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	1.3	10 ± 2	mg/dm ²

Test <i>Simulant</i>	Conditions <i>Test conditions</i>	Méthode / Technique <i>Method / Technic</i>	Résultats <i>Results</i>	Limites <i>Limits</i>	Unités <i>Units</i>
Migration globale / Overall migration - Immersion Simulant B - 3	2 x 10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	1.2	10 ± 2	mg/dm ²
Moyenne migration globale / Mean value overall migration - Immersion Simulant B	2 x 10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	1.1	10 ± 2	mg/dm ²
Migration globale / Overall migration - Immersion Simulant D1 - 1	2 x 10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	5.0	10 ± 2	mg/dm ²
Migration globale / Overall migration - Immersion Simulant D1 - 2	2 x 10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	4.6	10 ± 2	mg/dm ²
Migration globale / Overall migration - Immersion Simulant D1 - 3	2 x 10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	4.6	10 ± 2	mg/dm ²
Moyenne migration globale / Mean value overall migration - Immersion Simulant D1	2 x 10 jours / days 40°C	NF EN 1186-1 et 3 Immersion	4.7	10 ± 2	mg/dm ²
2 : Migration spécifique / Specific migration					
Etain / Tin (Sn) - Simulant B - 1	10 jours / days 60°C	Méthode interne MA- MPM-159 (ICP-MS) Immersion	< LQ / LOQ = 0.002	0.1	mg/kg
Etain / Tin (Sn) - Simulant B - 2	10 jours / days 60°C	Méthode interne MA- MPM-159 (ICP-MS) Immersion	< LQ / LOQ = 0.002	0.1	mg/kg
Etain / Tin (Sn) - Simulant B - 1	2 x 10 jours / days 60°C	Méthode interne MA- MPM-159 (ICP-MS) Immersion	< LQ / LOQ = 0.002	0.1	mg/kg
Etain / Tin (Sn) - Simulant B - 2	2 x 10 jours / days 60°C	Méthode interne MA- MPM-159 (ICP-MS) Immersion	< LQ / LOQ = 0.002	0.1	mg/kg

LQ / LOQ : Limite de Quantification Analytique / Limit of analytical quantification

Seule la version française fait foi - Only the french version is legally acceptable

INFORME DE ANÁLISIS

Hoja 1 de 1

NÚMERO DE INFORME

A2160462023

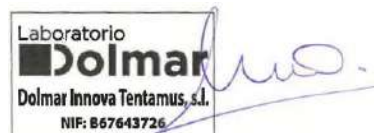
Cliente: NORTAP® - JIORINGS S.L.
Dirección: Polígono Erletxe Plataforma H Edificio 2.
Población: Galdakao. VIZCAYA 48960

Descripción de la muestra: Otros Productos.
Referencia cliente: Silicona alimenticia para tapones:mezcla JA432xF-314027
Recogida por: Tomada por el Cliente
Tipo de envase y formato: Plástico Estéril
Fecha entrada laboratorio: 06/07/2023

Fecha inicio análisis: 06/07/2023 Fecha fin análisis: 10/07/2023

Nº Muestra: 216046

MÉTODO	PARÁMETRO	TECNICA	UNIDADES	RESULTADO
Perfil Polihaloanisoles y polihalofenoles				
PNT-37-01	2,3,4-Triclorofenol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,3,4,5-Tetracloroanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,3,4,5-Tetraclorofenol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,3,4,6-Tetracloroanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,3,4,6-Tetraclorofenol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,3,5,6-Tetracloroanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,3,5,6-Tetraclorofenol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,4,5-Tricloroanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,4,6-Tribromoanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,4,6-Tribromofenol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,4,6-Tricloroanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,4,6-Triclorofenol	GC-MS-MS	ng/l	0,79
PNT-37-01	Pentabromofenol	GC-MS-MS	ng/l	<0,50
PNT-37-01	Pentacloroanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	Pentaclorofenol	GC-MS-MS	ng/l	<0,50



Fecha: 10 de julio de 2023

Ana Otero
Directora técnica

La incertidumbre de las medidas de los ensayos está calculada como incertidumbre expandida con un nivel de confianza aproximado del 95% ($k=2$), y está a disposición de los clientes que la soliciten.

Los resultados solo dan fe de la muestra analizada.

El laboratorio no se hace responsable de la información aportada por el cliente: Referencia cliente y otra información aportada por el cliente.

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ANALYSIS REPORT

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A2160462023

NUMBER OF REPORT

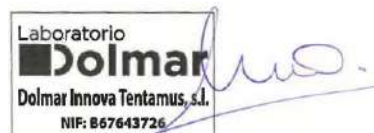
Client: NORTAP® - JIORINGS S.L.
Direction: Poligono Erletxe Plataforma H Edificio 2.
City: Galdakao. VIZCAYA 48960

Sample description: Otros Productos.
Customer reference: Foodstuff silicone for plugs: compound JA432XF-314027
Collected by: Customer
Volume and type of package: Plástico Estéril
Arrival date to laboratory: 06/07/2023

Analysis start date: 06/07/2023 Analysis end date: 10/07/2023

Sample ID: 216046

METHOD	PARAMETER	TECHNIQUE	UNITY	RESULT
Profile Polihaloanisoles y polihalofenoles				
PNT-37-01	2,3,4-Triclorofenol	GC-MS-MS	ng/l	<0.50
PNT-37-01	2,3,4,5-Tetracloroanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,3,4,5-Tetraclorofenol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,3,4,6-Tetracloroanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,3,4,6-Tetraclorofenol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,3,5,6-Tetracloroanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,3,5,6-Tetraclorofenol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,4,5-Tricloroanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,4,6-Tribromoanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,4,6-Tribromofenol	GC-MS-MS	ng/l	<0.50
PNT-37-01	2,4,6-Tricloroanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	2,4,6-Triclorofenol	GC-MS-MS	ng/l	0,79
PNT-37-01	Pentabromofenol	GC-MS-MS	ng/l	<0,50
PNT-37-01	Pentacloroanisol	GC-MS-MS	ng/l	<0,50
PNT-37-01	Pentaclorofenol	GC-MS-MS	ng/l	<0,50



Date: 10 de julio de 2023

Ana Otero
Directora técnica

The uncertainty of the test measurements is calculated as expanding uncertainty with an approximate confidence level of 95% ($k=2$) and is available to the customer on request.

The results only attest to the analyzed sample.

The laboratory is not responsible for the information provided by the client: Client reference and other information provided by the client.

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Test Report (SVHC)

No. TAOEC2301680101

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Client Name : JIORINGS S.L.

Client Address : Polígono Erletxe H 2 N. 5 48960 GALDAKAO BIZKAIA SPAIN

Sample Name : (SBR,CR,EPDM,NBR,SILICONE,FKM) RUBBER SHEET

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

SGS Job No. : QP23-001817 - QD

Date of Sample Received : 17 Mar 2023

Testing Period : 17 Mar 2023 - 27 Mar 2023

Test Requested : As requested by client, SVHC screening is performed according to:
(i) Two hundred and thirty-three (233) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 17, 2023 regarding Regulation (EC) No 1907/2006 concerning the REACH.

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

Summary :

According to the specified scope and evaluation screening, the test results of SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	PASS
---	------

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



Wang Bo, Claire
Approved Signatory



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Member of the SGS Group (SGS SA)

Test Report (SVHC)

No. TAOEC2301680101

Date: 28 Mar 2023

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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
These lists are under evaluation by ECHA and may subject to change in the future.
2. REACH obligation:
 - 2.1 Concerning article(s):
Communication:
Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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SGS (China) Technical Services (Qingdao) Co., Ltd.

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Test Report (SVHC)

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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits.

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample :

Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	TAO23-016801.001	black rubber+ black rubber+ black rubber+ black rubber+ white rubber+ black rubber

Test Method :

SGS In-House method- QDCH-TOP255-O-MTHD, QDCH-TOP017-IN, Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Test Report (SVHC)

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Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported.
Please refer to Appendix for the full list of tested SVHC.
2. RL = Reporting Limit (Test data will be shown if it $\geq$ RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
3. *The test result is based on the calculation of selected element(s) and to the worst-case scenario.
** The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium, cadmium respectively), except molybdenum
RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
4. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) $\geq 0.1\%$ (w/w).
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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Test Report (SVHC)

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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Test Report (SVHC)

No. TAOEC2301680101

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosfluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosfluorododecanoic acid	307-55-1	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050



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Test Report (SVHC)

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Date: 28 Mar 2023

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine(EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.050
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050



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Test Report (SVHC)

No. TAOEC2301680101

Date: 28 Mar 2023

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050



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Test Report (SVHC)

No. TAOEC2301680101

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050



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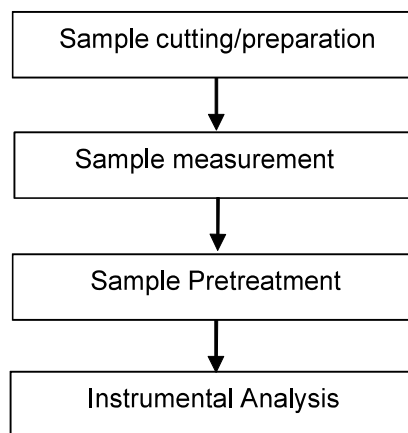
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ATTACHMENTS

SVHC Testing Flow Chart



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Test Report (SVHC)

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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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JIORings, S.L., basándose en los resultados obtenidos en las pruebas BfR XXI Categoría 3 realizadas en laboratorio, certifica que el compuesto **JA4327F-134662 - VMQ40 Marrón** - cumple los requisitos básicos del Reglamento (CE) nº 1935/2004 del Parlamento Europeo y del Consejo, de 27 de octubre de 2004, sobre los materiales y objetos destinados a entrar en contacto con alimentos.

JIORings, S.L., based on the results obtained by doing the BfR XXI category 3 tests fulfilled in a lab, certifies that the compound **JA4327F-134662 - VMQ40 Brown** - fulfills the basic requirements of the Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food.



TEST REPORT No. FUFDCP2020-02420

Date sample received: March 26/2020
Period of testing: March 26/2020 - April 23/2020
Technical Director: Kerstin Scharrer
Food contact testing according to client's request

Abbreviations:

- * = Test method is not part of the accreditation scope
- ** = Outsourcing
- n.a. = not applicable
- n.t. = not tested
- n.d. = not determinable (< LoQ)
- LoQ = limit of quantification
- CS = Combined sample
- P = passed
- F = failed

Sample description:

Brown / Beige Silicone (VMQ)





Sensory testing

Method: § 64 LFGB L 00.90-6 (2015-06)

Testing conditions: Water_{demin} (10d / 40°C)

Surface / Volume ratio: 42 cm² / 200 ml

Evaluation (average)

Sample	Results
Appearance of simulant	0
Odour of simulant	1.5
Taste of simulant	1
Status	passed

Evaluation scale

0= no aberration, neutral

1= very slight deterioration, barely perceivable

2= slight deterioration

3= significant deterioration

4= strong deterioration

Requirement: no significant deterioration (Limit: 2.5)

Peroxides

Method: BfR – BII XV/10*

Sample	Result
Peroxides	no positive reaction
Status	passed





Polycyclic aromatic hydrocarbons according to US-EPA + 2 EFSA PAH in mg/kg

Test method: AfPS GS 2014:01 PAK (2014-08)

Limit of quantification: 0.10 mg/kg

Substances	CAS-No	Results
1 Naphthalene	91-20-3	n.d.
2 Acenaphthylene	208-96-8	n.d.
3 Acenaphthen	83-32-9	n.d.
4 Fluorene	86-73-7	n.d.
5 Phenanthrene	85-01-8	n.d.
6 Anthracene	120-12-7	n.d.
7 Fluoranthene	206-44-0	n.d.
8 Pyrene	129-00-0	n.d.
9 Benzo(a)anthracene	56-55-3	n.d.
10 Chrysene	218-01-9	n.d.
11 Benzo(b)fluoranthene + 12 Benzo(j)fluoranthene	205-99-2 + 205-82-3	n.d.
13 Benzo(k)fluoranthene	207-08-9	n.d.
14 Benzo(a)pyrene	50-32-8	n.d.
15 Indeno(1,2,3-cd)pyrene	193-39-5	n.d.
16 Dibenzo(a,h)anthracene	53-70-3	n.d.
17 Benzo(ghi)perylene	191-24-2	n.d.
18 Benzo(e)pyrene	192-97-2	n.d.
sum		n.d.

Status: passed

Total content of cadmium and lead

Method: EDXRF*

Limit of quantification: Lead 20 mg/kg, Cadmium 30 mg/kg

Sample	Results
Cadmium mg/kg	n.d.
Lead mg/kg	n.d.
Status	passed

 Requirement: Cadmium max. 100 mg/kg
 Lead max. 100 mg/kg




Tin Organic Compounds in µg/kg

Test method: ISO/TS 16179 (2012-12) / DIN EN ISO 17353 (mod.) 2005-11

Substance name	Abbrev.	CAS-No	LOQ	Results
Monobutyl tin mg/kg	MBT	various	0.01	n.d.
Dibutyl tin mg/kg	DBT	various	0.01	n.d.
Tributyl tin mg/kg	TBT	various	0.01	n.d.
Tetrabutyl tin mg/kg	TeBT	1461-25-2	0.01	n.d.
Mono-octyl tin mg/kg	MOT	various	0.01	n.d.
Di-octyl tin mg/kg	DOT	various	0.01	n.d.
Tri-cyclohexyl tin mg/kg	TCHT	various	0.1	n.d.

Status: passed

Extractable Components of silicone

Method: BfR-Recommendations „Kunststoffe im Lebensmittelverkehr“, A XV 5*

Limit of quantification: 0.10%

Inaccuracy of measurement: 0.01%

a) Test conditions: Water_{demin} (5 h / 100°C reflux)

Sample	Result
Extractables %	n.d.
Status	passed

Requirement: max. 0.5%

b) Test conditions: Acetic acid 3% (5 h / 100°C reflux)

Sample	Result
Extractables %	n.d.
Status	passed

Requirement: max. 0.5%

c) Test conditions: Ethanol 10% (5 h / 100°C reflux)

Sample	Result
Extractables %	n.d.
Status	passed

Requirement: max. 0.5%





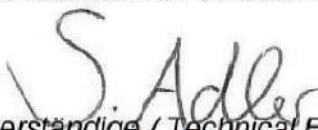
Phthalates in %

Test method: 12.01.02.04 _Phthalates (2019-12)

Substance name	Abbrev.	CAS-No	LOQ	Results
Diisobutylphthalate ¹	DIBP	84-69-5	0.005	n.d.
Dibutylphthalate ¹	DBP	84-74-2	0.005	n.d.
Benzylbutylphthalate ¹	BBP	85-68-7	0.005	n.d.
Bis-(2-ethylhexyl) phthalate ¹	DEHP	117-81-7	0.005	n.d.
Di-n-octylphthalate	DNOP	117-84-0	0.005	n.d.
Diisononylphthalate	DINP	28553-12-0 68515-48-0	0.005	n.d.
Diisodecylphthalate	DIDP	26761-40-0 68515-49-1	0.005	n.d.

¹ Limit for articles: 0.1% Sum of 4 phthalates - valid from 7. July 2020

Intertek Consumer Goods GmbH


 Sachverständige / Technical Expert
 Sarah Adler

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END OF REPORT



RAPPORT / REPORT N°

FRAJ18004387-M1

Date : 21/01/2019

ATTN : JIOrings, S.L.

POLIGONO ERLETXE,
PLATAFORMA H, EDIFICIO 2, N°5,
48960 GALDAKAO (BIZKAIA)
SPAIN

Votre référence : SILICONE PLUG
Your reference JA4327F

Date de démarrage des essais : 21/12/2018
Start date of tests

ESSAIS DEMANDÉS / REQUESTED TESTS	RÉFÉRENTIEL / REFERENTIAL	CONCLUSION
Migration globale <i>Global migration</i>	Arrêté français du 25 Novembre 1992	CONFORME <i>COMPLIES</i>
Migration spécifique de l'étain <i>Specific migration of tin</i>	Arrêté français du 25 Novembre 1992	CONFORME <i>COMPLIES</i>

Commentaire : -
Comment

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Le présent rapport n'a pas pour objet de recommander des actions particulières. Il se limite à établir la conformité ou la non-conformité de l'échantillon que vous nous avez présenté par rapport aux normes applicables ou à votre cahier des charges. Pour déclarer, ou non, la conformité à la spécification, il n'a pas été tenu explicitement compte de l'incertitude associée au résultat.

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Thibault FOUGEROUX

Ingénieur d'essais

Testing engineer

Laboratoire Chimie Analytique

Analytical Chemistry laboratory



RAPPORT N°

FRAJ18004387-M1

Date : 21/01/2019



ÉCHANTILLON / SAMPLE N° : 004387-1 / SILICONE PLUG

Reçu le : 21/12/2018
Received on

Quantité reçue : 10
Received quantity

Référence client : JA4327F
Client reference



Liste des éléments analysés / List of the tested elements :

A : Silicone Marron
Brown silicone



Migration globale

Global migration

Arrêté français du 25 Novembre 1992

Terminé le / End date : 17/01/2019

déterminés selon les Directives 85/572/CEE et 97/48/CE.

The used simulant(s) and test conditions are determined according to Directives 85/572/EEC and 97/48/EC.

Norme(s) de référence utilisée(s)

Used reference standard(s) for test methods:

NF EN 1186-1

NF EN 1186-3

Les résultats sont donnés en mg/kg (milligramme par kilogramme).

Results are given in mg/kg (milligram per kilogram).

Simulant utilisé <i>Used simulant</i>	Température de contact (°C) <i>Contact temperature</i>	Temps de contact <i>Contact time</i>	Ratio surface/volume (dm ² /ml)	Limite <i>Limit</i>	A
Éthanol 20% <i>20% ethanol</i>	40	10 j	1.0/100	<10	<0,1



Migration spécifique de l'étain

Specific migration of tin

Arrêté français du 25 Novembre 1992

Terminé le / End date : 15/01/2019

La teneur en étain est mesurée par spectrométrie de masse à plasma inductif (ICP-MS).

The tin content is measured by Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Simulant utilisé <i>Used simulant</i>	Température de contact (°C) <i>Contact temperature</i>	Temps de contact <i>Contact time</i>	Ratio surface/volume (dm²/ml)
Acide acétique 3% (Sim. B) <i>3% acetic acid</i>	40	10 j	0.123/20

Désignation <i>Designation</i>	N° CAS	Limite <i>Limit</i>	A
Étain (mg/kg) <i>Tin</i>	7440-31-5	<0,1	<0,01



OSASUN SAILA

Osasun Sailburuordetza
Osasun Publikoaren eta Adikzioen
Zuzendaritza

DEPARTAMENTO DE SALUD

Viceconsejería de Salud
Dirección de Salud Pública y Adicciones

JIORINGS, S.L.
POLÍGONO INDUSTRIAL ERLETXES, H 2-PABELLÓN, 5
48960 Galdakao (Bizkaia)

EAEko elikagai-establezimenduen Erroldan dauden datuen arabera, zure establezimenduaren erregistro-datuak honako hauek dira:

De acuerdo con los datos obrantes en el Censo de establecimientos alimentarios de la CAPV., los datos de inscripción de su establecimiento son los siguientes:

Establezimenduen Datuak / Datos del Establecimiento
<i>Izena edo Sozietatearen Izena / Razón Social</i> JIORINGS, S.L.
<i>Helbide Soziala / Domicilio Social</i> POLÍGONO INDUSTRIAL ERLETXES, H 2-PABELLÓN, 5 - 48960 Agirre-Aperribai/Galdakao (Bizkaia)
<i>Industriaren Helbidea / Domicilio Industrial</i> POLIGONO INDUSTRIAL ERLETXES, H2 PABELLON 5 - 48960 Agirre-Aperribai/Galdakao (Bizkaia)

Sektorea, Kategoria eta Jarduera / Sector, Categoría y Actividad
<i>Elikagaiak ukitzen dituzten materialak eta objektuak / Materiales y objetos destinados a entrar en Contacto con los Alimentos</i> <i>Inportazioa / Importador</i> <i>Elikagaiekin kontaktuan dauden objektuak / Objetos destinados a entrar en contacto con los alimentos</i>

Inskripzio Zk. - Sektorea / N° Inscripción - Sector
39.006030/BI-Elikagaiak ukitzen dituzten materialak eta objektuak / Materiales y objetos destinados a entrar en Contacto con los Alimentos

Nahitaez jakinarazi beharreko datuen bat aldatzen bada edota establezimenduaren jarduera behin betiko eteten bada, agintaritza eskudunari aurkeztu beharko zaio gertakariaren inguruko komunikazioa.
Si se produjera la modificación de cualquiera de los datos de información obligatoria o el cese definitivo de actividad del establecimiento, se presentará comunicación de los hechos ante la autoridad competente.

VITORIA-GASTEIZ (e) n. 2018 (e) ko aztaila-ren 5-(e) an
En VITORIA-GASTEIZ, 5 de julio de 2018

OSASUN SAILA

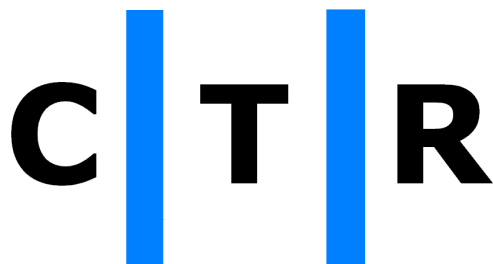
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Donostia-San Sebastián (Kalea/Calle), Num: 1. EUSKO JAURLARITZA - 01010 Vitoria-Gasteiz/Vitoria-Gasteiz Araba/Álava
Tl.: 945019201 - Fax: 945019192
Orr. / Pág. 1



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Centro Tecnológico Riojano

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Informe 160823/2
« Ensayos de migración »

Elaborado por:	Francisco Llaría Barúa
Fecha de emisión:	23/08/2016
Solicitud nº:	1608-055
Nivel:	Final

Este documento es propiedad del solicitante, y no debe ser reproducido parcialmente sin la aprobación por escrito de CTR.

Los resultados se refieren únicamente a las muestras ensayadas, descritas en el apartado "Resultados".

El valor de la incertidumbre de los resultados se encuentra a disposición del cliente.

Solicitante

Nombre: JIOrings
Dirección: Pol. Ind. Erletxe, plataforma H2, pabellón 5. 48960 Galdakao (Vizcaya)
Teléfono: 9944014420
Contacto: Jean-Albert Morlard

Datos de las muestras

Identificación	Descripción	Código	Fecha recepción
JA4327F-134027 VMQ70	Plancha de goma marrón claro	160804-055	04/08/2016

Ensayos solicitados

Determinación de la migración total en agua destilada y n-hexano a reflujo, según la regulación de FDA 21CFR177.2600 "Food and drugs. Food for human consumption. Substances for use only as components of articles for repeated use. Rubber articles Intended for repeated use". Apartados e y f.

Resultados

Migración total en agua destilada a reflujo

Resultado a las 7 horas iniciales	Especificado a las 7 horas iniciales	Resultado a las 2 horas siguientes	Especificado a las 2 horas siguientes
< 0,01 mg/sq in	20 mg/sq in (max)	< 0,01 mg/sq in	1 mg/sq in (max)

Migración total en n-hexano a reflujo

Resultado a las 7 horas iniciales	Especificado a las 7 horas iniciales	Resultado a las 2 horas siguientes	Especificado a las 2 horas siguientes
0,02 mg/sq in	175 mg/sq in (max)	0,01 mg/sq in	4 mg/sq in (max)

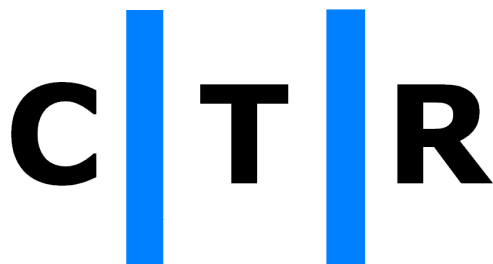
Fecha de realización: Inicio 10/08/2016

Fin 11/08/2016

Informe realizado por: Francisco Llaría Barúa

C|T|R
Centro Tecnológico Riojano, S.A.
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Fdo.: Francisco Llaría Barúa
Director técnico



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Report 160823/2
« Migration tests »

Issued by:	Francisco Llaría Barúa
Date of issue:	23/08/2016
Order:	1608-055
Level:	Final

**This report refers only to the tested samples, described in section "Samples".
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Applicant

Company: JIOrings
Address: Pol. Ind. Erletxe, plataforma H2, pabelón 5. 48960 Galdakao (Vizcaya)
Phone: 9944014420
Contact: Jean-Albert Morlard

Samples

Identification	Description	Code	Arrival date
JA4327F-134027 VMQ70	Light brown rubber plate	160804-055	04/08/2016

Tests

Overall migration in distilled water and n-hexane at reflux, according to FDA 21CFR177.2600 "Food and drugs. Food for human consumption. Substances for use only as components of articles for repeated use. Rubber articles Intended for repeated use". Ap. e and f.

Results**Migration in distilled water**

Resultado a las 7 horas iniciales	Especificado a las 7 horas iniciales	Resultado a las 2 horas siguientes	Especificado a las 2 horas siguientes
< 0,01 mg/sq in	20 mg/sq in (max)	< 0,01 mg/sq in	1 mg/sq in (max)

Migration in n-hexane

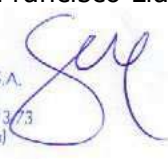
Resultado a las 7 horas iniciales	Especificado a las 7 horas iniciales	Resultado a las 2 horas siguientes	Especificado a las 2 horas siguientes
0,02 mg/sq in	175 mg/sq in (max)	0,01 mg/sq in	4 mg/sq in (max)

Date of test: Start 10/08/2016

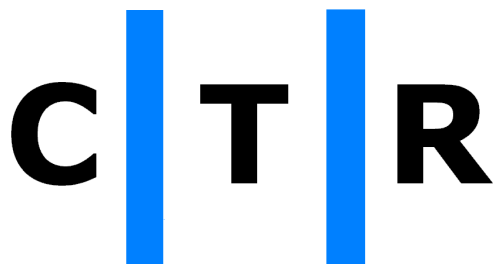
End 11/08/2016

Informe realizado por: Francisco Llaría Barúa

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Informe 161219/9
« Ensayos de migración en etanol »

Elaborado por:	Francisco Llaría Barúa
Fecha de emisión:	19/12/2016
Solicitud nº:	1611-152
Nivel:	Final

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Los resultados se refieren únicamente a las muestras ensayadas, descritas en el apartado "Resultados".

Solicitante

Nombre: JIOrings
Dirección: Pol. Ind. Erletxe, Plataforma H2, Pabellón 5. 48960 Galdakao (Vizcaya)
Teléfono: 9944014420
Contacto: Jean-Albert Morlard

Datos de las muestras

Identificación	Descripción	Código	Fecha recepción
JA4327F-314027	Plancha de goma transparente	161111-152	11/11/2016

Ensayos solicitados

Determinación de la migración global en etanol al 20% en agua, durante 10 días a 40°C, según el reglamento 10/2011 de la Comisión.

Resultados

Resultado
34 mg/dm ²

Según el artículo 12 del Reglamento 10/2011 de la Comisión, los materiales y objetos plásticos no cederán sus constituyentes a los simulantes alimentarios en cantidades que superen en total los 10 miligramos de constituyentes liberados por decímetro cuadrado de superficie de contacto (mg/dm²).

Fecha de realización: Inicio 05/12/2016

Fin 15/12/2016

Informe realizado por: Francisco Llaría Barúa



Fdo.: Francisco Llaría Barúa
Director técnico



Test Report

No. TSNEC1400110401

Date: 17 Feb 2014

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The following sample(s) was/were submitted and identified on behalf of the clients as : SILICONE PIECE

SGS Job No. : TP14-000490 - TJ

Model No. : TD-1401

Date of Sample Received : 11 Feb 2014

Testing Period : 11 Feb 2014 - 17 Feb 2014

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

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

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

Conclusion : Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.



Reabeca Zhou
Approved Signatory

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SGS-CSTC Standards Technical Service (Tianjin) Co., Ltd.
Chemical Laboratory

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中国·天津市经济技术开发区第五大街41号SGS大厦 邮编: 300457 t (86-22) 65288000 f (86-22) 25295252

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e sgs.china@sgs.com

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Test Report

No. TSNEC1400110401

Date: 17 Feb 2014

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	TSN14-001104.001	translucent silicon piece

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

- Test Method :
- (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 - (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
 - (3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
 - (4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
 - (5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	2	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Report

No. TSNEC1400110401

Date: 17 Feb 2014

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Test Item(s)	Limit	Unit	MDL	001
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes :

- (1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II.

Polynuclear Aromatic Hydrocarbons (PAHs)

Test Method : With reference to ZEK 01.4-08 of German ZLS and its amendments, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	001
Naphthalene(NAP)	mg/kg	0.2	0.2
Acenaphthylene(ANY)	mg/kg	0.2	ND
Acenaphthene(ANA)	mg/kg	0.2	ND
Fluorene(FLU)	mg/kg	0.2	ND
Phenanthrene(PHE)	mg/kg	0.2	ND
Anthracene(ANT)	mg/kg	0.2	ND
Fluoranthene(FLT)	mg/kg	0.2	ND
Pyrene(PYR)	mg/kg	0.2	ND
Benzo(a)anthracene(BaA)	mg/kg	0.2	ND
Chrysene(CHR)	mg/kg	0.2	ND
Benzo(b)fluoranthene(BbF) and Benzo(j)fluoranthene(BjF)	mg/kg	0.2	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.2	ND
Benzo(a)pyrene(BaP)	mg/kg	0.2	ND
Benzo(e)pyrene(BeP)	mg/kg	0.2	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.2	ND
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.2	ND
Benzo(g,h,i)perylene(BPE)	mg/kg	0.2	ND
Sum of 18 PAHs	mg/kg	-	0.2

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Test Report

No. TSNEC1400110401

Date: 17 Feb 2014

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ZEK 01.4-08: Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Material indented to be put in the mouth or material for toys with normal skin contact for children aged <36 months	Materials those are not included in Category 1, with predictable contact with the skin longer than 30 s. (long-term skin contact).	Materials those are not included in Category 1 or 2, with predictable skin contact up to 30 s (short-term skin contact).
Benzo(a)pyrene (mg/kg)	<0.2**	1	20
Sum of 18 PAH (mg/kg)*	<0.2**	10	200

Notes:

* = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs

** = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material which is indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff/EN13130 and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

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Test Report

No. TSNEC1400110401

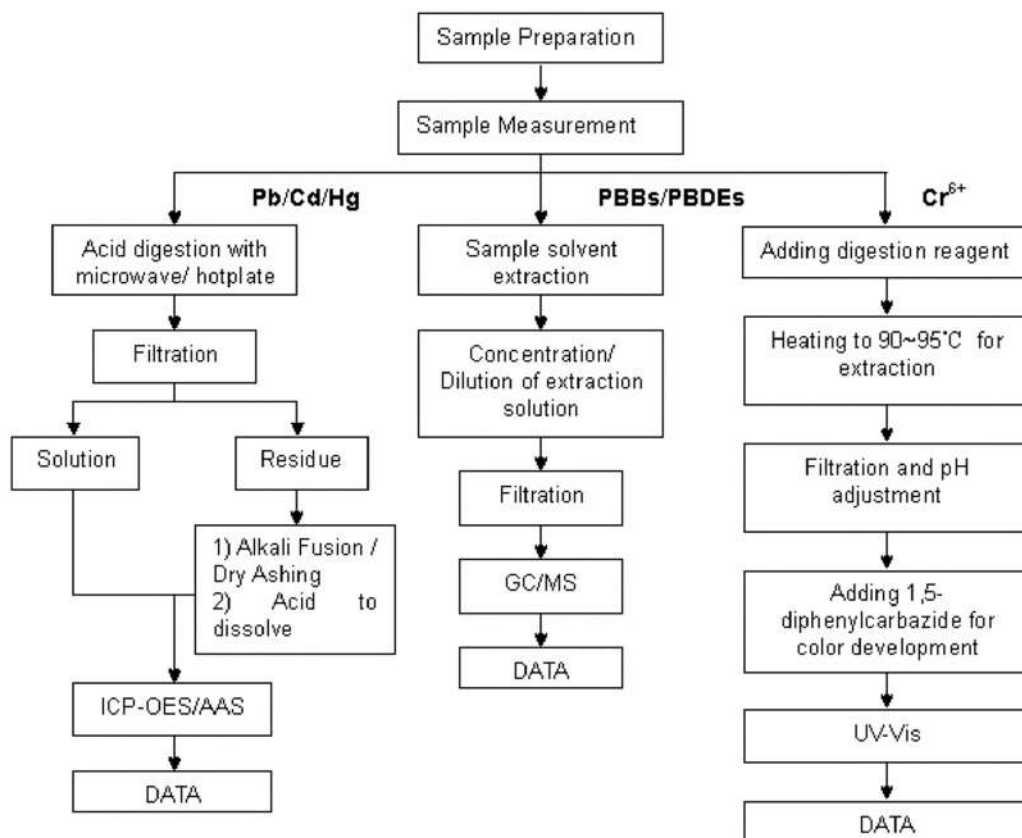
Date: 17 Feb 2014

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ATTACHMENTS

Cd/Pb/Hg/Cr⁶⁺/PBBs/PBDEs Flow Chart

- 1) Name of the person who made testing: Aaron Wang/Jason Li /Angell Yao
- 2) Name of the person in charge of testing: Cindy Yin/Rex Zhu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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Test Report

No. TSNEC1400110401

Date: 17 Feb 2014

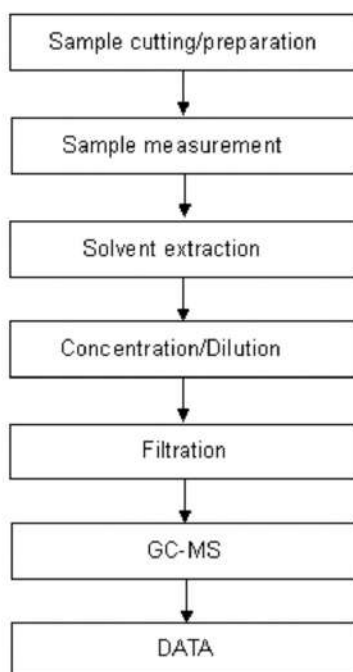
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ATTACHMENTS

PAHs Testing Flow Chart

1) Name of the person who made testing: Marina Sun

2) Name of the person in charge of testing: Rex Zhu



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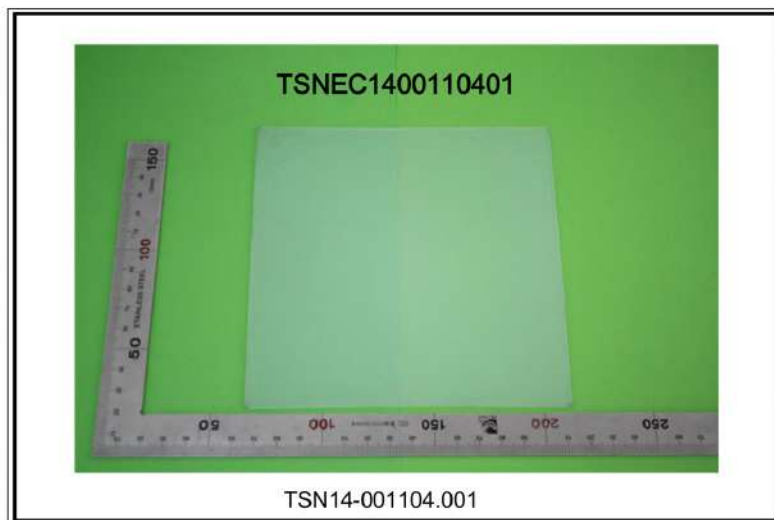
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Sample photo:



SGS authenticate the photo on original report only

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