

REPORT OF ANALYSIS No. 95326/21/GDY

Client SAFILIN SP. Z O.O. UL. O. WŁADYSŁAWA WŁODYKI 2 14-310 MIŁAKOWO	Sample description (according to declaration of Client) white string Sample without any visible damages
Sample received: 2021-02-23	Order of 2021-02-19 The samples were delivered by Client
Analysis completed (the date of performance of the laboratory activity): 2021-03-29	
Report dated: 2021-03-29	

Test	Method	Food simulant	Test conditions	Unit	Result	Criteria	Parameter compliant / non-compliant
* Sensory analysis - scoring method ¹⁾	DIN 10955:2004						
Odour		almond flakes	10 days at 23°C		0,0	-	-
Flavour		almond flakes	10 days at 23°C		0,0	-	-
* Content of elements (heavy metals acc to Directive 94/62/EC) ²⁾³⁾	PB-233/ICP ed. II of 15.11.2017						
Cadmium (Cd)		-	-	mg/kg	< 0,5	-	-
Total chromium (Cr (total))		-	-	mg/kg	< 2,0	-	-
Lead (Pb)		-	-	mg/kg	< 2,0	-	-
Mercury (Hg)		-	-	mg/kg	< 0,5	-	-
Total metals content		-	-	mg/kg	< 100	≤ 100	compliant
# Specific migration - 2-methyl-2H-isothiazol-3-one (MIT) [CAS No: 2682-20-4] ⁴⁾⁵⁾	A 12-104	95% ethanol	30 hours at 60°C + 2 days at 20°C	mg/kg	< 0,01	-	-
# * Specific migration - 5-chloro-2-methyl-2H-isothiazol-3-one (CMIT) [CAS No: 26172-55-4] ⁴⁾⁵⁾⁶⁾	A 12-104	95% ethanol	30 hours at 60°C + 2 days at 20°C	mg/kg	< 0,01	≤ 0,5	compliant
Preparation of the simulant to specific migration test - substitute food symulant D2e ⁷⁾	PN-EN 13130-1:2006						
Food contact surface area/food simulant volume		95% ethanol	30 hours at 60°C + 2 days at 20°C	dm ² /ml	0,60/100	-	-

¹⁾ The scale used for the odour/flavour assessment:

- 0 - no noticeable deviation of the odour /flavour,
- 1 - barely noticeable deviation of the odour /flavour (hard to define yet),
- 2 - weak deviation of the odour /flavour,
- 3 - significant deviation of the odour /flavour,
- 4 - strong deviation of the odour /flavour (this intensity does not determine the probable maximum).

Authorized by: Anna Serwin, Senior Specialist Analyst, Non-Food and Packaging Laboratory
 Joanna Kosińska, Senior Analytical Techniques Specialist, Non-Food and Packaging Laboratory
 Natalia Misiuna, Expert Analyst, Sensory Analysis Laboratory
 Approved by: Hanna Wachowska, Laboratory Director (Approved with electronic signature)

Laboratory: Gdynia 81-571, Chwaszczyńska 180

The results relate to the analysed samples only. Unless otherwise specified given expanded measurement uncertainty was estimated for the coverage factor k=2 at 95% confidence level. Sampling uncertainty has not been taken into consideration. Unless otherwise specified when conformity is stated J.S. Hamilton Poland Sp. z o.o. applies the simple acceptance decision rule in accordance with ILAC-G8:09/2019. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on www.hamilton.com.pl

* Test method accredited; # Test performed by external provider



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- ²⁾ Directive 94/62/ EC of 20 December 1994 on packaging and packaging waste to the content Pb, Cd, Hg and Cr(VI). The content of Cr(VI) does not exceed the content of total chromium.
- ³⁾ "<" indicates below the limit of quantification of the method.
- ⁴⁾ Migration results expressed in mg/kg applying the conventional S/V ratio of 6 dm² per kg of food.
- ⁵⁾ Symbol „<” means less than limit of detection of the analytical method.
- ⁶⁾ Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food which is a specific measure within the meaning of Article 5(1) of 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 and repealing Directives 80/590/EEC and 89/109/EEC (OJ L12 of 15.1.2011, as amended).
- ⁷⁾ PN-EN 13130-1:2006 p.15

Tests: Specific migration - 5-chloro-2-methyl-2H-isothiazol-3-one (CMIT) [CAS No: 26172-55-4] were performed by external provider with an accreditation number L 1004

Test: Specific migration - 2-methyl-2H-isothiazol-3-one (MIT) [CAS No: 2682-20-4] was performed by external provider Institut pro testování a certifikaci, a.s., Zlín – Louky, Czechy

THE END OF THE REPORT

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Natalia Misiuna, Expert Analyst, Sensory Analysis Laboratory
Approved by: Hanna Wachowska, Laboratory Director (*Approved with electronic signature*)

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