



24.13700

**I I S G**



## TEST REPORT: 24.13700

This report is composed by 12 pages, of which:      2 pages for the Summary  
   10 pages for the Report 24.13700a

**Date in sample:** 26 March 2024

**Issue date:** 6 May 2024

**MANUFACTURER** Q24227

The Good Plastic Company BV  
Keersluisweg 7 Hall 1  
1332 EE Almere NETHERLANDS

**APPLICANT** Q24227

The Good Plastic Company BV  
Keersluisweg 7 Hall 1  
1332 Almere NETHERLANDS

**SAMPLE DESCRIPTION (no. 786509)**

Polygood Panel



TEST REPORT: 24.13700

dated 06 May 2024

**SAMPLE DESCRIPTION (no. 786509)**

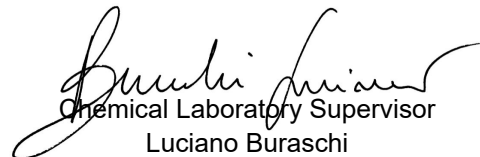
Polygood Panel

**TEST PERFORMED**

<b>Commission Regulation (EU) 2023/1627 of 10 August 2023 - Annex II, point 2 - Primary Aromatic Amines</b>	<b>Complies</b>
<b>Commission Regulation (EU) 2023/1627 of 10 August 2023, Chapter 2, Article 12 - Overall Migration</b>	<b>Complies</b>
<b>Commission Regulation (EU) 2023/1627 of 10 August 2023, Annex II, Point 1 - Specific Migration of Certain Substances (Al, Ba, Co, Cu, Fe, Li, Mn, Ni, Zn, Sb, As, Cd, Cr, Eu, Gd, La, Pb, Hg, Tb)</b>	<b>Complies</b>
<b>Ministerial Decree of 21st, March, 1973 - Colorant Migration Test for Food Contact Article</b>	<b>Complies</b>

NA = Not Applicable; NR = Not Required

*Note: it is prohibited the partial reproduction, any changes or modifications of this test report. Sampling performed by the customer.  
Data contained in the first page of this document have been declared by the client, the laboratory is not responsible for the results that could be influenced by such data.  
Data related to the sample have been provided by the customer.  
The results are exclusively referred to the samples tested as received by the laboratory unless otherwise specified.  
Conclusions/judgments are expressed with exclusive reference to parts detailed in the following pages and based on limits there specified.  
Recovery between 80-110% is not indicated on test reports and it is not considered in the final calculation.  
DECISION RULE: The declaration of conformity is given not taking into account the measurement uncertainty.*



Chemical Laboratory Supervisor  
Luciano Buraschi



24.13700a

**I I S G**



**TEST REPORT: 24.13700a** dated **6/5/2024**

This section is an integral part of the TEST REPORT 24.13700

**DATES**

**Test beginning:** 27/3/2024  
**Issue date:** 6/5/2024

**APPLICANT**

**The Good Plastic Company BV**



**SAMPLE DESCRIPTION**

Polygood Panel

**Inspection before test: NO DEFECT**

TEST METHODS	CONCLUSIONS
Overall and Specific Migrations	COMPLIES

## Conclusion

The results of migration found **DO COMPLY** with the following Legislations:

- Italian Ministerial Decree 21.3.1973 hygienic discipline of packaging, containers and utensils intended to come into contact with foodstuffs or with substances for personal use and further amendments
- COMMISSION REGULATION (EU) No 10/2011 on plastic materials and articles intended to come into contact with food and further amendments.

The results are referred to plastic articles intended to repeated contact for any long-term storage at room temperature or below, including when packaged under hot-fill conditions, and/or heating up to a temperature  $T$  where  $70\text{ °C} \leq T \leq 100\text{ °C}$  for a maximum of  $t = 120/2^{((T-70)/10)}$  minutes with all kinds of foods

### Note:

A) According to specification of Annex V- Compliance testing, chapter 3, point 3.1 Standardized testing conditions of COMMISSION REGULATION (EU) No 10/2011, for the evaluation of overall migration, tests have been performed under standardized conditions OM2 [10 days at 40 °C] and the corresponding (for the use of alternative simulants) with all kinds of foods.

B) Specifications on the use of the article

(i) type or types of food with which it is intended to be put in contact:

*All kinds of foods.*

(ii) time and temperature of treatment and storage in contact with the food:

*-Repeated contact for any long-term storage at room temperature or below, including when packaged under hot-fill conditions, and/or heating up to a temperature  $T$  where  $70\text{ °C} \leq T \leq 100\text{ °C}$  for a maximum of  $t = 120/2^{((T-70)/10)}$  minutes.*

(iii) ratio of food contact surface area to volume used to establish the compliance of the material or article:  $6\text{ dm}^2/\text{Kg}$

C) According to specification of Annex V- Compliance Testing, chapter 3, point 3.4.2 Food simulant substitutes of COMMISSION REGULATION (EC) No 10/2011, test for overall and specific migration in fatty foods have been performed using the appropriate alternative simulants (95% ethanol and isooctane) and considering the highest migration value found.

For point 2.2.4 of the aforementioned Regulation, the appropriate specific migrations were carried out in the appropriate alternative simulant

D) Tests have been performed according to specific request of the client



Samples parts description submitted to tests

N.	Tested Component
01	Plastic Panel

Test Results

Overall & Colorant Migration to Aqueous and Acid foods simulant	Complies
Overall & Colorant Migration to Milky and Alcoholic foods simulant	Complies
Overall & Colorant Migration to Fatty foods simulant	Complies
Specific Migration of Primary Aromatic Amines	Complies
Specific Migration of certain substances	Complies



Test			
<b>Determination of Overall Migration</b>			
Method	REGULATION (EC) 10/2011 Annex III and V + EN 1186-3:2022 Test methods for overall migration in evaporable simulants (Method 1a: total immersion in conventional oven)		
Principle	The sample is put in contact with the appropriate food simulants, overall migration is determined according to the procedure specified in the methods above indicated.		
<b>Tested parts: Plastic Panel</b>			
<b>Food Simulants</b>		<b>Results</b>	
<b>3% Acetic Acid (w/v) in aqueous solution [10 days at 40°C]</b>	<b>First Contact</b>	<b>Second Contact</b>	<b>Third Contact</b>
	< 3.0 mg/dm <sup>2</sup>	< 3.0 mg/dm <sup>2</sup>	< 3.0 mg/dm <sup>2</sup>
<b>Stability<sup>(1)</sup></b>		<b>Complies</b>	
<b>50% Ethanol (v/v) in aqueous solution [10 days at 40°C]</b>	<b>First Contact</b>	<b>Second Contact</b>	<b>Third Contact</b>
	< 3.0 mg/dm <sup>2</sup>	< 3.0 mg/dm <sup>2</sup>	< 3.0 mg/dm <sup>2</sup>
<b>Stability<sup>(1)</sup></b>		<b>Complies</b>	
<b>95% Ethanol (v/v) in aqueous solution [10 days at 40°C]</b>	<b>First Contact</b>	<b>Second Contact</b>	<b>Third Contact</b>
	< 3.0 mg/dm <sup>2</sup>	< 3.0 mg/dm <sup>2</sup>	< 3.0 mg/dm <sup>2</sup>
<b>Stability<sup>(1)</sup></b>		<b>Complies</b>	
<b>Limits</b>		<b>10.0 mg/dm<sup>2</sup></b>	

**Notes:**  
**(1)** The overall migration in the second contact must not exceeds the value observed in first contact and the overall migration in the third contact must not exceeds the value observed in the second contact.  
 The symbol < followed by a number indicates that the concentration of the analyte is less than the detection limit expressed by that number.

TEST REPORT: 24.13700a

dated 6/5/2024

Test		Determination of Colorant Migration	
Method	DM 21/03/1973 and further amendments Annex IV - Section VII		
Equipments	UV-Visible Spectrophotometer		
Principle	The sample is put in contact (repeated) with the appropriate food simulants, colorant migration is determined according to the procedure specified in the methods above indicated.		
<b>Tested parts: Plastic Panel</b>			
<b>Food Simulants</b>		<b>Results</b>	
3% Acetic Acid (w/v) in aqueous solution [10 days at 40°C]		Transmittance not less than 95%	
50% Ethanol (v/v) in aqueous solution [10 days at 40°C]		Transmittance not less than 95%	
Vegetable Oil [10 days at 40°C]		Transmittance not less than 95%	
<b>Limits</b>		<b>Transmittance not less than 95%</b>	

Test		Determination of Primary Aromatic Amines Release	
Method	According to Protocol A by LC-MS - EUR 24815 EN 2011		
Equipment	Liquid Chromatograph with Mass Spectrometer Detector (LC-MSD)		
Principle	The sample is put in contact with the appropriate food simulant, primary aromatic amines release is determined according to the procedure specified in the methods above indicated.		
<b>Tested Parts: Plastic Panel</b>			
<b>Food Simulants</b>		<b>Results<sup>(2)</sup></b>	
3% Acetic Acid (w/v) in aqueous solution [10 days at 40°C]		Total PAAs <sup>(1)</sup> < 0.01	
<b>Limit<sup>(2)</sup></b>		<b>Total PAAs<sup>(1)</sup> &lt; 0.01</b>	
<b>Substances</b>	<b>Results<sup>(2)</sup></b>	<b>Limits<sup>(2)</sup></b>	
2,2-dichloro-4,4'-methylenediamine (CAS 101-14-4)	< 0.002	< 0.002	
2,4,5-trimethylaniline (CAS 137-17-7)	< 0.002	< 0.002	
2-Methoxyaniline (CAS 90-04-0)	< 0.002	< 0.002	
2-naphthylamine (CAS 91-59-8)	< 0.002	< 0.002	
3,3'-dichlorobenzidine (CAS 91-94-1)	< 0.002	< 0.002	
3,3'-dimethoxybenzidine (CAS 119-90-4)	< 0.002	< 0.002	
3,3'-dimethylbenzidine (CAS 119-93-7)	< 0.002	< 0.002	
4,4'-methylenedi-o-toluidine (CAS 838-88-0)	< 0.002	< 0.002	
4,4'-oxydianiline (CAS 101-80-4)	< 0.002	< 0.002	
4,4'-thiodianiline (CAS 139-65-1)	< 0.002	< 0.002	
4,4'-diaminodiphenylmethane (CAS 101-77-9)	< 0.002	< 0.002	
4-Aminoazobenzene (CAS 60-09-3)	< 0.002	< 0.002	
4-chloro-o-toluidine (CAS 95-69-2)	< 0.002	< 0.002	
4-chloroaniline (CAS 106-47-8)	< 0.002	< 0.002	
4-methoxy-m-phenylenediamine (CAS 615-05-4)	< 0.002	< 0.002	
4-methyl-m-phenylenediamine (CAS 95-80-7)	< 0.002	< 0.002	
5-nitro-o-toluidine (CAS 99-55-8)	< 0.002	< 0.002	
6-methoxy-m-toluidine (CAS 120-71-8)	< 0.002	< 0.002	
Benzidine (CAS 92-87-5)	< 0.002	< 0.002	
Biphenyl-4-ylamine (CAS 92-67-1)	< 0.002	< 0.002	
o-aminoazotoluene (CAS 97-56-3)	< 0.002	< 0.002	
o-toluidine (CAS 95-53-4)	< 0.002	< 0.002	

**Notes:**

(1) PAAs (Primary Aromatic Amines) include the substances not listed in entry 43 to Appendix 8 of Annex XVII to Regulation (EC) No 1907/2006 which are Aniline; 2,4-Dimethylaniline; 2,6-Dimethylaniline; m-Phenylenediamine and 2,6-Toluenediamine.

(2) The results and limits are expressed in mg/Kg

The symbol < followed by a number indicates that the concentration of the analyte is less than the detection limit expressed by that number.



TEST REPORT: 24.13700a

dated 6/5/2024

Test		Specific Migration of certain substances									
Method	EN 13130-1:2004+ISO 17294-2:2023										
Equipment	ICP-MS (mass spectrometry)										
Principle	The sample is put in contact with the appropriate food simulants, specific migration of certain substances is determined according to the procedure specified in the methods above indicated.										
<b>First Contact</b>											
<b>Tested Parts: Plastic Panel</b>											
Food Simulants		Results <sup>(1)</sup>									
3% Acetic Acid (w/v) in aqueous solution [10 days at 40°C]	Al	Ba	Co	Cu	Fe	Li	Mn	Ni	Zn	Sb	
	< 0.2	< 0.2	< 0.01	< 1	< 10	< 0.1	< 0.1	< 0.01	< 0.5	< 0.01	
	As	Cd	Cr	Eu	Gd	La	Pb	Hg	Tb	OM <sup>(2)</sup>	
	< 0.003	< 0.001	< 0.003	< 0.01	< 0.01	< 0.01	< 0.003	< 0.003	< 0.01	< 20	
50% Ethanol (v/v) in aqueous solution [10 days at 40°C]	Al	Ba	Co	Cu	Fe	Li	Mn	Ni	Zn	Sb	
	< 0.2	< 0.2	< 0.01	< 1	< 10	< 0.1	< 0.1	< 0.01	< 0.5	< 0.01	
	As	Cd	Cr	Eu	Gd	La	Pb	Hg	Tb	OM <sup>(2)</sup>	
	< 0.003	< 0.001	< 0.003	< 0.01	< 0.01	< 0.01	< 0.003	< 0.003	< 0.01	< 20	
<b>Second Contact</b>											
<b>Tested Parts: Plastic Panel</b>											
Food Simulants		Results <sup>(1)</sup>									
3% Acetic Acid (w/v) in aqueous solution [10 days at 40°C]	Al	Ba	Co	Cu	Fe	Li	Mn	Ni	Zn	Sb	
	< 0.2	< 0.2	< 0.01	< 1	< 10	< 0.1	< 0.1	< 0.01	< 0.5	< 0.01	
	As	Cd	Cr	Eu	Gd	La	Pb	Hg	Tb	OM <sup>(2)</sup>	
	< 0.003	< 0.001	< 0.003	< 0.01	< 0.01	< 0.01	< 0.003	< 0.003	< 0.01	< 20	
50% Ethanol (v/v) in aqueous solution [10 days at 40°C]	Al	Ba	Co	Cu	Fe	Li	Mn	Ni	Zn	Sb	
	< 0.2	< 0.2	< 0.01	< 1	< 10	< 0.1	< 0.1	< 0.01	< 0.5	< 0.01	
	As	Cd	Cr	Eu	Gd	La	Pb	Hg	Tb	OM <sup>(2)</sup>	
	< 0.003	< 0.001	< 0.003	< 0.01	< 0.01	< 0.01	< 0.003	< 0.003	< 0.01	< 20	

**Notes:**

(1) The results are expressed in mg/Kg

(2) OM means "Overall Migration" of Ammonium, Calcium, Potassium, Magnesium and Sodium that are subjected to limitation (60 mg/Kg) due to Article 11(3) and Article 12 of the Regulation mentioned above.

The symbol &lt; followed by a number indicates that the concentration of the analyte is less than the detection limit expressed by that number.

Test		Specific Migration of certain substances									
Method	EN 13130-1:2004+ISO 17294-2:2023										
Equipment	ICP-MS (mass spectrometry)										
Principle	The sample is put in contact with the appropriate food simulants, specific migration of certain substances is determined according to the procedure specified in the methods above indicated.										
<b>Third Contact</b>											
<b>Tested Parts: Plastic Panel</b>											
Food Simulants		Results <sup>(1)</sup>									
3% Acetic Acid (w/v) in aqueous solution [10 days at 40°C]	Al	Ba	Co	Cu	Fe	Li	Mn	Ni	Zn	Sb	
	< 0.2	< 0.2	< 0.01	< 1	< 10	< 0.1	< 0.1	< 0.01	< 0.5	< 0.01	
	As	Cd	Cr	Eu	Gd	La	Pb	Hg	Tb	OM <sup>(2)</sup>	
	< 0.003	< 0.001	< 0.003	< 0.01	< 0.01	< 0.01	< 0.003	< 0.003	< 0.01	< 20	
Stability <sup>(3)</sup>						Complies					
50% Ethanol (v/v) in aqueous solution [10 days at 40°C]	Al	Ba	Co	Cu	Fe	Li	Mn	Ni	Zn	Sb	
	< 0.2	< 0.2	< 0.01	< 1	< 10	< 0.1	< 0.1	< 0.01	< 0.5	< 0.01	
	As	Cd	Cr	Eu	Gd	La	Pb	Hg	Tb	OM <sup>(2)</sup>	
	< 0.003	< 0.001	< 0.003	< 0.01	< 0.01	< 0.01	< 0.003	< 0.003	< 0.01	< 20	
Stability <sup>(3)</sup>						Complies					
Limits <sup>(1)</sup>	Al	Ba	Co	Cu	Fe	Li	Mn	Ni	Zn	Sb	
	< 1	< 1	< 0.05	< 5	< 48	< 0.6	< 0.6	< 0.02	< 5	< 0.04	
	As	Cd	Cr	Eu	Gd	La	Pb	Hg	Tb	OM <sup>(2)</sup>	
	< 0.01	< 0.002	< 0.01	< 0.05	< 0.05	< 0.05	< 0.01	< 0.01	< 0.05	< 60	

**Notes:**

(1) The results and limits are expressed in mg/Kg

(2) OM means "Overall Migration" of Ammonium, Calcium, Potassium, Magnesium and Sodium that are subjected to limitation (60 mg/Kg) due to Article 11(3) and Article 12 of the Regulation mentioned above.

(3) The specific migration in the second contact must not exceeds the value observed in first contact and the specific migration in the third contact must not exceeds the value observed in the second contact.

The symbol < followed by a number indicates that the concentration of the analyte is less than the detection limit expressed by that number.

TEST REPORT: 24.13700a

dated 6/5/2024

Test		Specific Migration of certain substances									
Method	EN 13130-1:2004+ISO 17294-2:2023										
Equipment	ICP-MS (mass spectrometry)										
Principle	The sample is put in contact with the appropriate food simulants, specific migration of certain substances is determined according to the procedure specified in the methods above indicated.										
<b>First Contact</b>											
<b>Tested Parts: Plastic Panel</b>											
Food Simulants		Results <sup>(1)</sup>									
95% Ethanol (v/v) in aqueous solution [10 days at 40°C]	Al	Ba	Co	Cu	Fe	Li	Mn	Ni	Zn	Sb	
	< 0.2	< 0.2	< 0.01	< 1	< 10	< 0.1	< 0.1	< 0.01	< 0.5	< 0.01	
	As	Cd	Cr	Eu	Gd	La	Pb	Hg	Tb	OM <sup>(2)</sup>	
	< 0.003	< 0.001	< 0.003	< 0.01	< 0.01	< 0.01	< 0.003	< 0.003	< 0.01	< 20	
<b>Second Contact</b>											
<b>Tested Parts: Plastic Panel</b>											
Food Simulants		Results <sup>(1)</sup>									
95% Ethanol (v/v) in aqueous solution [10 days at 40°C]	Al	Ba	Co	Cu	Fe	Li	Mn	Ni	Zn	Sb	
	< 0.2	< 0.2	< 0.01	< 1	< 10	< 0.1	< 0.1	< 0.01	< 0.5	< 0.01	
	As	Cd	Cr	Eu	Gd	La	Pb	Hg	Tb	OM <sup>(2)</sup>	
	< 0.003	< 0.001	< 0.003	< 0.01	< 0.01	< 0.01	< 0.003	< 0.003	< 0.01	< 20	

**Notes:**

(1) The results are expressed in mg/Kg

(2) OM means "Overall Migration" of Ammonium, Calcium, Potassium, Magnesium and Sodium that are subjected to limitation (60 mg/Kg) due to Article 11(3) and Article 12 of the Regulation mentioned above.

The symbol &lt; followed by a number indicates that the concentration of the analyte is less than the detection limit expressed by that number



<b>Test</b>		<b>Specific Migration of certain substances</b>								
Method	EN 13130-1:2004+ISO 17294-2:2023									
Equipment	ICP-MS (mass spectrometry)									
Principle	The sample is put in contact with the appropriate food simulants, specific migration of certain substances is determined according to the procedure specified in the methods above indicated.									
<b>Third Contact</b>										
<b>Tested Parts: Plastic Panel</b>										
<b>Food Simulants</b>		<b>Results<sup>(1)</sup></b>								
<b>95% Ethanol (v/v) in aqueous solution [10 days at 40°C]</b>	<b>Al</b>	<b>Ba</b>	<b>Co</b>	<b>Cu</b>	<b>Fe</b>	<b>Li</b>	<b>Mn</b>	<b>Ni</b>	<b>Zn</b>	<b>Sb</b>
	< 0.2	< 0.2	< 0.01	< 1	< 10	< 0.1	< 0.1	< 0.01	< 0.5	< 0.01
	<b>As</b>	<b>Cd</b>	<b>Cr</b>	<b>Eu</b>	<b>Gd</b>	<b>La</b>	<b>Pb</b>	<b>Hg</b>	<b>Tb</b>	<b>OM<sup>(2)</sup></b>
	< 0.003	< 0.001	< 0.003	< 0.01	< 0.01	< 0.01	< 0.003	< 0.003	< 0.01	< 20
<b>Stability<sup>(3)</sup></b>					<b>Complies</b>					
<b>Limits<sup>(1)</sup></b>	<b>Al</b>	<b>Ba</b>	<b>Co</b>	<b>Cu</b>	<b>Fe</b>	<b>Li</b>	<b>Mn</b>	<b>Ni</b>	<b>Zn</b>	<b>Sb</b>
	< 1	< 1	< 0.05	< 5	< 48	< 0.6	< 0.6	< 0.02	< 5	< 0.04
	<b>As</b>	<b>Cd</b>	<b>Cr</b>	<b>Eu</b>	<b>Gd</b>	<b>La</b>	<b>Pb</b>	<b>Hg</b>	<b>Tb</b>	<b>OM<sup>(2)</sup></b>
	< 0.01	< 0.002	< 0.01	< 0.05	< 0.05	< 0.05	< 0.01	< 0.01	< 0.05	< 60

**Notes:**  
**(1)** The results and limits are expressed in mg/Kg  
**(2)** OM means "Overall Migration" of Ammonium, Calcium, Potassium, Magnesium and Sodium that are subjected to limitation (60 mg/Kg) due to Article 11(3) and Article 12 of the Regulation mentioned above.  
**(3)** The specific migration in the second contact must not exceeds the value observed in first contact and the specific migration in the third contact must not exceeds the value observed in the second contact.  
 The symbol < followed by a number indicates that the concentration of the analyte is less than the detection limit expressed by that number

••• END OF REPORT •••