



**TURKISH REPUBLIC**  
**MINISTRY OF AGRICULTURE AND FORESTRY**  
**YEDİTEPE UNIVERSITY R&D AND ANALYSIS CENTER (YU-AGAM) FOOD**  
**CONTROL LABORATORY**  
**ANALYSIS REPORT**



Test  
TS EN ISO/IEC 17025  
AB-0754-T

AB-0754-T

GKL24000046

01/2024

**Report No** : GKL24000046  
**Customer Information / Address** : UZPAK VAKUM AMBALAJ ÜRÜNLERİ İMALAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ / Merkez Mh, 1201. Sokak No:8, 54200 Erenler/Sakarya Erenler/Sakarya/Turkey  
**Offer No** : GKL240040-00-DLR  
**Start / End Date of Analysis** : 08/01/2024 / 26/01/2024  
**Sample Acceptance Date** : 05/01/2024  
**Sample Check Status / Temperature** : Cargo / 20 °C  
**Sample Type** : VACUUM PACKING PACKAGE  
**Taken date** : -  
**Location** : -  
**Package** : Plastic Bag  
**Quantity Packaging** : 1  
**Production and expiry date** : /  
**Serial - Lot Number** : -  
**Quantity** : 1 PAKET  
**Manufacturer / Exporter / Importer** : UZPAK VAKUM AMBALAJ ÜRÜNLERİ İMALAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ / UZPAK  
**Publication Date of the Report** : 26/01/2024

YEDİTEPE ARGE VE ANALİZ MERKEZİ TİC. A.Ş. - YEDİTEPE ÜNİVERSİTESİ AR-GE VE ANALİZ MERKEZİ accredited by TÜRKAK under registration number AB-0754-T for TS EN ISO/IEC 17025:2017 as test laboratory. Turkish Accreditation Agency (TÜRKAK) is signatory to the European co-operation for the Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports. The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.



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| Analysis                                                           | Analysis Result | Unit               | Ö.B.<br>( ± )             | (LOD /<br>LOQ) | G.K.<br>(%) | Analysis<br>Method         | Device   | E.S                                                                                                                     | E.V  | E |
|--------------------------------------------------------------------|-----------------|--------------------|---------------------------|----------------|-------------|----------------------------|----------|-------------------------------------------------------------------------------------------------------------------------|------|---|
| 1-Total Migration (10% Ethyl Alcohol Solution)-Simulant A (***)    | 0,63            | mg/dm <sup>2</sup> | mg/dm <sup>2</sup> ± 0,15 | -              | -           | TS EN 1186-1, TS EN 1186-3 | -        | Turkish Food Codex Communiqué on Plastic Substances and Materials in Contact with Food No: 2019/44                      | < 10 | P |
| 2-Total Migration (20% Ethyl Alcohol Solution)-Simulant C (***)    | 0,9             | mg/dm <sup>2</sup> | mg/dm <sup>2</sup> ± 0,19 | -              | -           | TS EN 1186-1, TS EN 1186-3 | -        | Turkish Food Codex Communiqué on Plastic Substances and Materials in Contact with Food No: 2019/44                      | < 10 | P |
| 3-Total Migration (3% Acetic Acid Solution)-Simulant B (***)       | 0,93            | mg/dm <sup>2</sup> | mg/dm <sup>2</sup> ± 0,19 | -              | -           | TS EN 1186-1, TS EN 1186-3 | -        | Commission Regulation (EU) 10/2011 and Regulation (EU) 2023/1442 amending Annex I to Commission Regulation (EU) 10/2011 | < 10 | P |
| 4-Total Migration (50% Ethyl Alcohol Solution)-Simulant D1 (***)   | 1,17            | mg/dm <sup>2</sup> | mg/dm <sup>2</sup> ± 0,21 | -              | -           | TS EN 1186-1, TS EN 1186-3 | -        | Commission Regulation (EU) 10/2011 and Regulation (EU) 2023/1442 amending Annex I to Commission Regulation (EU) 10/2011 | < 10 | P |
| 5-Determination Of Total Migration (Fatty Foods-Simulant D2) (***) | 5,42            | mg/dm <sup>2</sup> | mg/dm <sup>2</sup> ± 1,23 | -              | -           | TS EN 1186-1, TS EN 1186-2 | GC-FID 1 | Turkish Food Codex Communiqué on Plastic Substances                                                                     | < 10 | P |



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| Analysis                                                                                                                              | Analysis Result                                               | Unit       | Ö.B.<br>( ± )      | (LOD /<br>LOQ)  | G.K.<br>(%) | Analysis<br>Method                  | Device   | E.S                                                                                                                                                      | E.V  | E |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------|--------------------|-----------------|-------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|
| 5-Determination Of<br>Total Migration (Fatty<br>Foods-Simulant D2)<br>(***)                                                           | 5,42                                                          | mg/dm<br>2 | mg/dm2 ±<br>1,23   | -               | -           | TS EN 1186-<br>1,TS EN<br>1186-2    | GC-FID 1 | and Materials<br>in Contact<br>with Food<br>No: 2019/44                                                                                                  | < 10 | P |
| 6-Specific Migration-<br>Metal Migration:<br>Barium, Cobalt,<br>Copper, Iron, Lithium,<br>Manganese, Zinc,<br>Aluminium, Nickel (***) | Aluminum (Al)<br>Migration (3%<br>Acetic Acid):<br>0,0071     | mg /kg     | mg /kg ±<br>0,0013 | 0,006<br>mg /kg | 96%         | TS EN 13130-<br>1 ISO 17294-<br>1&2 | ICP-MS 1 | Commission<br>Regulation<br>(EU) 10/2011<br>and<br>Regulation<br>(EU)<br>2023/1442<br>amending<br>Annex I to<br>Commission<br>Regulation<br>(EU) 10/2011 | < 1  | P |
|                                                                                                                                       | Copper (Cu)<br>Migration (3%<br>Acetic Acid):<br>Not Detected | mg /kg     | -                  | 0,006<br>mg /kg | 98%         | TS EN 13130-<br>1 ISO 17294-<br>1&2 | ICP-MS 1 | Commission<br>Regulation<br>(EU) 10/2011<br>and<br>Regulation<br>(EU)<br>2023/1442<br>amending<br>Annex I to<br>Commission<br>Regulation<br>(EU) 10/2011 | ≤5   | P |
|                                                                                                                                       | Barium (Ba)<br>Migration (3%<br>Acetic Acid):<br>Not Detected | mg /kg     | -                  | 0,006<br>mg /kg | 96%         | TS EN 13130-<br>1 ISO 17294-<br>1&2 | ICP-MS 1 | Commission<br>Regulation<br>(EU) 10/2011<br>and<br>Regulation<br>(EU)<br>2023/1442<br>amending<br>Annex I to<br>Commission<br>Regulation<br>(EU) 10/2011 | ≤1   | P |
|                                                                                                                                       | Zinc (Zn)<br>Migration (3%<br>Acetic acid):<br>0,0126         | mg /kg     | mg /kg ±<br>0,0018 | 0,006<br>mg /kg | 101%        | TS EN 13130-<br>1 ISO 17294-<br>1&2 | ICP-MS 1 | Commission<br>Regulation<br>(EU) 10/2011<br>and<br>Regulation<br>(EU)                                                                                    | ≤5   | P |



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| Analysis | Analysis Result                                                     | Unit   | Ö.B.<br>( ± )      | (LOD /<br>LOQ)   | G.K.<br>(%) | Analysis<br>Method                  | Device   | E.S                                                                                                                                                      | E.V   | E |
|----------|---------------------------------------------------------------------|--------|--------------------|------------------|-------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|
|          | Zinc (Zn)<br>Migration (3%<br>Acetic acid):<br>0,0126               | mg /kg | mg /kg ±<br>0,0018 | 0,006<br>mg /kg  | 101%        | TS EN 13130-<br>1 ISO 17294-<br>1&2 | ICP-MS 1 | 2023/1442<br>amending<br>Annex I to<br>Commission<br>Regulation<br>(EU) 10/2011                                                                          | ≤5    | P |
|          | Iron (Fe)<br>Migration (3%<br>Acetic Acid):<br>Not Detected         | mg /kg | -                  | 0,006<br>mg /kg  | 96%         | TS EN 13130-<br>1 ISO 17294-<br>1&2 | ICP-MS 1 | Commission<br>Regulation<br>(EU) 10/2011<br>and<br>Regulation<br>(EU)<br>2023/1442<br>amending<br>Annex I to<br>Commission<br>Regulation<br>(EU) 10/2011 | < 48  | P |
|          | Cobalt (Co)<br>Migration (3%<br>Acetic Acid):<br>Not Detected       | mg /kg | -                  | 0,0012<br>mg /kg | 94%         | TS EN 13130-<br>1 ISO 17294-<br>1&2 | ICP-MS 1 | Commission<br>Regulation<br>(EU) 10/2011<br>and<br>Regulation<br>(EU)<br>2023/1442<br>amending<br>Annex I to<br>Commission<br>Regulation<br>(EU) 10/2011 | ≤0,05 | P |
|          | Lithium (Li)<br>Migration (3%<br>Acetic Acid):<br>Not Detected      | mg /kg | -                  | 0,006<br>mg /kg  | 97%         | TS EN 13130-<br>1 ISO 17294-<br>1&2 | ICP-MS 1 | Commission<br>Regulation<br>(EU) 10/2011<br>and<br>Regulation<br>(EU)<br>2023/1442<br>amending<br>Annex I to<br>Commission<br>Regulation<br>(EU) 10/2011 | ≤0,6  | P |
|          | Manganese<br>(Mn) Migration<br>(3% Acetic<br>Acid): Not<br>Detected | mg /kg | -                  | 0,006<br>mg /kg  | 99%         | TS EN 13130-<br>1 ISO 17294-<br>1&2 | ICP-MS 1 | Commission<br>Regulation<br>(EU) 10/2011<br>and<br>Regulation                                                                                            | ≤0,6  | P |



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| Analysis                                                                                                   | Analysis Result                                                     | Unit       | Ö.B.<br>( ± )    | (LOD /<br>LOQ)  | G.K.<br>(%) | Analysis<br>Method                  | Device   | E.S                                                                                                                                                      | E.V    | E |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------|------------------|-----------------|-------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---|
|                                                                                                            | Manganese<br>(Mn) Migration<br>(3% Acetic<br>Acid): Not<br>Detected | mg /kg     | -                | 0,006<br>mg /kg | 99%         | TS EN 13130-<br>1 ISO 17294-<br>1&2 | ICP-MS 1 | (EU)<br>2023/1442<br>amending<br>Annex I to<br>Commission<br>Regulation<br>(EU) 10/2011                                                                  | ≤0,6   | P |
|                                                                                                            | Nickel (Ni)<br>Migration (3%<br>Acetic Acid):<br>Not Detected       | mg /kg     | -                | 0,006<br>mg /kg | 101%        | TS EN 13130-<br>1 ISO 17294-<br>1&2 | ICP-MS 1 | Commission<br>Regulation<br>(EU) 10/2011<br>and<br>Regulation<br>(EU)<br>2023/1442<br>amending<br>Annex I to<br>Commission<br>Regulation<br>(EU) 10/2011 | < 0,02 | P |
| 7-Total Migration<br>Analysis Determination<br>of Dry Food Modified<br>Polyphenylene Oxide<br>(MPPO) (***) | 0,43                                                                | mg/dm<br>2 | mg/dm2 ±<br>0,09 | -               | -           | TS EN 1186-<br>13 Method B          | -        | EU10/2011<br>and all<br>amendments<br>including<br>(EU)<br>2023/1442                                                                                     | < 10   | P |

**Abbreviations**

E:Evaluation P:Pass F:Fail N.I: Not Interpreted R:Recovery E.U:Expanded Uncertainty LOD/LOQ:Limit of Detection/Limit of Quantification R.L:Reporting Limit O.G:Official Gazette (R.G.) TFC:Turkish Food Codex E.S:Evaluation Source , E.V:Evaluation Value

As a result of the examination and analysis carried out, the above-mentioned values have been determined

Note 1. This Analysis report cannot be used in judicial-administrative proceedings and for advertising purposes.

Note 2. No part of this analysis report can be used alone or separately.

Note 3. The analysis results are valid for the above-mentioned sample.

Note 4. Our reports cannot be reproduced and published without permission. Unsigned reports are invalid.

Note 5. (\*\*) In the marked analysis, our laboratory is T.C. He is authorized by the Ministry of Agriculture and Forestry.

Note 6. (\*\*\*) In the marked analysis, our laboratory is T.C. Authorized by the Ministry of Agriculture and Forestry, accredited by TURKAK.

Note 7. The declaration of conformity is based on a 95% coverage probability for extended uncertainty.

Note 8. Our laboratory is not responsible for the effect of sample-related information and services provided by the customer on the analysis results.

Note 9. The sampling process has not been performed by our laboratory, and the results are valid for the state in which the sample was delivered.

Note 10. The result is suitable because it remains below the upper limit even when extended upward by half of the uncertainty December. The declaration of conformity is based on a 95% coverage probability for extended uncertainty; k=2.

Note 11. The analysis results of this report are valid only for the specified sample type and serial lot number.

Note 12. The migration tests were performed by exposing 1 dm2 section of the sample material to 3% acetic acid, 10% ethyl alcohol, 20% ethyl alcohol, 50% ethyl alcohol, vegetable oil and Tenax (MPPO) food simulant for 10 days at a temperature of +40°C by immersion method.

Note 13. Migration; 3% acetic acid with 40 degrees 10 days immersion method was taken into analysis by predicting the surfaces in contact with food.

Note 14. The migration tests were performed by exposing 1 dm2 section of the sample material to vegetable oil food simulant by immersion method at a temperature of +40°C for 10 days.



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26/01/2024

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